DAIKIN

technical data

air conditioning systems

RZQ-B

Pair/Twin/Triple/Double Twin Application, Inverter Controlled Unit

Split Sky Air

Split - Sky Air

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice.

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1 Features

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- Outdoor units for pair application
- The Sky Air Inverter is developed for use in shops, restaurants and small offices. This innovative Daikin unit provides a more comfortable environment and offers great savings in energy consumption to shop and office owners.
- The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- An inverter driven compressor allows the capacity to be adjusted precisely to match variations in room and outside temperatures.
- During start up, the room can be cooled down or heated very quickly. Once the temperature in the room has reached its set point, the low power operation starts to save energy.
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- Outdoor units are fitted with either a swing or scroll compressor, renowned for low noise and high energy efficiency
- A special acryl precoated fin for anti-corrosion treatment on the heat exchanger ensures greater resistance against severe weather conditions



2 Specifications

2-1 TECHNICAL SPECIFICATIONS				RZQ71B8V3B	RZQ100B8V3B	RZQ100B7W1B	RZQ125B8V3B
Casing	Colour			Daikin white			
	Material			Painted galvanized steel plate			
Dimensions	Packing	Height	mm	900	1475	1475	1475
		Width	mm	980	980	980	980
		Depth	mm	420	420	420	420
	Unit	Height	mm	770	1345	1345	1345
		Width	mm	900	900	900	900
		Depth	mm	320	320	320	320
Weight	Machine Weight		kg	68	106	106	106
	Gross Weight		kg	72	111	111	111
Heat Exchanger	Dimensions	Length	mm	857	857	857	857
		Nr of Rows		2	2	2	2
		Fin Pitch	mm	1.40	1.40	1.40	1.40
		Nr of Passes		3	5	5	5
		Face Area	m^2	0.641	1.131	1.131	1.131
		Nr of Stages		34	60	60	60
	Tube type			Hi-XSS(8)			
	Fin	Type		WF fin			
		Treatment		Anti-corrosion treatment (PE)			
Fan	Type			Propeller			
	Discharge direction			Horizontal			
	Quantity			1	2	2	2
	Air Flow Rate (nominal)	Cooling	m^3/min	54.50	103.0	103.0	99.0
		Heating	m^3/min	48.10	101.0	101.0	100.0
	Motor	Quantity		1	2	2	2
		Model		KFD-325-70-8A			
Motor	Speed (nominal at 230V)	Steps		8	8	8	8
		Cooling	rpm	818	789	789	782
		Heating	rpm	715	775	775	767
Fan	Motor	Output	W	70	70	70	70
		Drive		direct drive			
Compressor	Quantity			1	1	1	1
	Motor	Model		2YC63BXD	JT100G-VD	JT1G-VDYR@T	JT100G-VD
		Type		Hermetically sealed swing compressor	Hermetically sealed scroll compressor		
		Motor Output	W	1800	2200	2200	2200
		Starting Method		Inverter driven			
		Crankcase Heater	W	_	33	33	33
Operation Range	Cooling	Min	°CDB	-15.0	-15.0	-15.0	-15.0
		Max	°CDB	50.0	50.0	50.0	50.0
	Heating	Min	°CWB	-20.0	-20.0	-20.0	-20.0
		Max	°CWB	15.5	15.5	15.5	15.5
Sound Level (nominal)	Cooling	Sound Power	dBA	63.0	65.0	65.0	66.0
		Sound Pressure	dBA	47.0	49.0	49.0	50.0
	Heating	Sound Pressure	dBA	49.0	51.0	51.0	52.0
Sound Level (Night quiet)	Cooling	Sound Pressure	dBA	43.0	45.0	45.0	45.0
Refrigerant	Type			R-410A			
	Charge		kg	2.80	4.30	4.30	4.30
	Control			Expansion valve (electronic type)			
	Nr of Circuits			1	1	1	1

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2-1 TECHNICAL SPECIFICATIONS				RZQ71B8V3B	RZQ100B8V3B	RZQ100B7W1B	RZQ125B8V3B
Refrigerant Oil	Type			Daphne FVC50K	Daphne FVC68D		
	Charged Volume		l	0.8	1.0	1.0	1.0
Piping connections	Liquid (OD)	Quantity		1	1	1	1
		Type		Flare connection			
		Diameter (OD)	mm	9.52	9.52	9.52	9.52
	Gas	Quantity		1	1	1	1
		Type		Flare connection			
		Diameter (OD)	mm	15.9	15.9	15.9	15.9
	Drain	Quantity		3	3	3	3
		Type		Hole			
		Diameter (OD)	mm	26	26	26	26
	Piping Length	Minimum	m	5	5	5	5
		Maximum	m	50	75	75	75
		Equivalent	m	70	95	95	95
		Chargeless	m	30	30	30	30
	Additional Refrigerant Charge		kg/m	see installation manual 4PW21412-1			
	Installation height difference	Maximum	m	30.0	30.0	30.0	30.0
	Max. internunit level difference		m	0.5	0.5	0.5	0.5
	Heat Insulation			Both liquid and gas pipes			
Defrost Method				Pressure equalising			
Defrost Control				Sensor for outdoor heat exchanger temperature			
Capacity Control Method				Inverter controlled			
Safety Devices				High pressure switch			
				Fan motor thermal protector			
				Fuse			
Standard Accessories	Item			Tie-wraps			
	Quantity			2	2	2	2
	Item			Installation manual			
	Quantity			1	1	1	1

2-1 TECHNICAL SPECIFICATIONS				RZQ125B7W1B	RZQ140B7W1B	RZQ200B7W1B	RZQ250B7W1B
Casing	Colour			Daikin white			
	Material			Painted galvanized steel plate			
Dimensions	Packing	Height	mm	1475	1475	1753	1753
		Width	mm	980	980	1055	1055
		Depth	mm	420	420	860	860
	Unit	Height	mm	1345	1345	1600	1600
		Width	mm	900	900	930	930
		Depth	mm	320	320	765	765
Weight	Machine Weight		kg	106	106	225	226
	Gross Weight		kg	111	111	236	237
Heat Exchanger	Dimensions	Length	mm	857	857	1640	1640
		Nr of Rows		2	2	2	2
		Fin Pitch	mm	1.40	1.40	2.00	2.00
		Nr of Passes		5	5	16	16
		Face Area	m^2	1.131	1.131	1.948	1.948
		Nr of Stages		60	60	54	54
	Tube type			Hi-XSS(8)			
	Fin	Type		WF fin		Non-symmetric waffle louvre	
		Treatment		Anti-corrosion treatment (PE)		Corrosion resistant	
Fan	Type			Propeller			
	Discharge direction			Horizontal		Vertical	
	Quantity			2	2	1	1
	Air Flow Rate (nominal)	Cooling	m^3/min	99.0	99.0	175	175
		Heating	m^3/min	100.0	100.0	175	175
	External static pressure (Max)			-	-	60 Pa in high static pressure	
	Motor	Quantity		2	2	1	1
		Model		KFD-325-70-8A		Brushless DC	
		Position		-		Vertical	

2-1 TECHNICAL SPECIFICATIONS				RZQ125B7W1B	RZQ140B7W1B	RZQ200B7W1B	RZQ250B7W1B
Motor	Speed (nominal at 230V)	Steps		8	8	8	8
		Cooling	rpm	782	782	760	760
		Heating	rpm	767	767	825	825
Fan	Motor	Output	W	70	70	750	750
		Drive		Direct drive			
Compressor	Quantity			1	1	2	2
	Motor	Model		JT1G-VDYR@T	JT1G-VDYR@T	Inverter	
		Type		Hermetically sealed scroll compressor			
		Speed	rpm	-	-	900~6480	
		Motor Output	W	2200	2200	2200	2200
		Starting Method		Direct on line			
		Crankcase Heater	W	33	33	33	33
	Motor	Model		-	-	ON - OFF	
		Type		Hermetically sealed scroll compressor			
		Speed	rpm	-	-	2900	
		Motor Output	W	-	-	4500	
		Starting Method		Direct on line			
		Crankcase Heater	W	-	-	33	
Operation Range	Cooling	Min	°CDB	-15.0	-15.0	-5.0	-5.0
		Max	°CDB	50.0	50.0	46.0	46.0
	Heating	Min	°CWB	-20.0	-20.0	-15.0	-15.0
		Max	°CWB	15.5	15.5	15.0	15.0
Sound Level (nominal)	Cooling	Sound Power	dBA	66.0	66.0	-	-
		Sound Pressure	dBA	50.0	50.0	-	-
	Heating	Sound Power	dBA	-	-	78.0	78.0
		Sound Pressure	dBA	-	-	57.0	57.0
Sound Level (Night quiet)	Cooling	Sound Pressure	dBA	45.0	45.0	-	-
Refrigerant	Type			R-410A			
	Charge		kg	4.30	4.30	8.00	9.00
	Control			Expansion valve (electronic type)			
	Nr of Circuits			1	1	1	1
Refrigerant Oil	Type			Daphne FVC68D			
	Charged Volume		l	1.0	1.0	1.7 + 1.6	1.7 + 1.6
Piping connections	Liquid (OD)	Quantity		1	1	1	1
		Type		Flare connection			
		Diameter (OD)	mm	9.52	9.52	9.52	12.7
	Gas	Quantity		1	1	1	1
		Type		Flare connection		Braze connection	
		Diameter (OD)	mm	15.9	15.9	22.2	22.2
	Drain	Quantity		3	3	-	-
		Type		Hole		-	-
		Diameter (OD)	mm	26	26	-	-
	Piping Length	Minimum	m	5	5	5	5
		Maximum	m	75	75	100	100
		Equivalent	m	95	95	-	-
		Chargeless	m	30	30	30	30
	Additional Refrigerant Charge		kg/m	see installation manual 4PW21412-1			
	Installation height difference	Maximum	m	30.0	30.0	30.0	30.0
	Max. internunit level difference		m	0.5	0.5	0.5	0.5
	Heat Insulation			Both liquid and gas pipes			
Defrost Method				Pressure equalising		Reversed cycle	
Defrost Control				Sensor for outdoor heat exchanger temperature		Sensor for outdoor heat exchanger temperature	
Capacity Control Method				Inverter controlled		Inverter controlled	

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2-1 TECHNICAL SPECIFICATIONS		RZQ125B7W1B	RZQ140B7W1B	RZQ200B7W1B	RZQ250B7W1B
Safety Devices		High pressure switch		High pressure switch	
		Fan motor thermal protector		Fan motor driver overload protector	
		-		Inverter overload protector	
		-		Overcurrent relay	
		Fuse		PC board fuse	
Standard Accessories	Item	Tie-wraps		Installation manual	
	Quantity	2	2	1	1
	Item	Installation manual		Additional refrigerant label	
	Quantity	1	1	1	1
	Item	Installation manual		Connection pipes	
	Quantity	1	1	4	4

2-2 ELECTRICAL SPECIFICATIONS				RZQ71B8V3B	RZQ100B8V3B	RZQ100B7W1B	RZQ125B8V3B
Power Supply	Name			V3	V3	W1B	V3
	Phase			1	1	3N	1
	Frequency		Hz	50	50	50	50
	Voltage		V	230	230	400	230
Current	Recomended fuses		A	20	32	20	32
Voltage range	Minimum		V	207	207	360	207
	Maximum		V	253	253	440	253
Wiring connections	For Power Supply	Remark		see installation manual 4PW21412-1			
	For connection with indoor	Remark		see installation manual 4PW21412-1			
Power Supply Intake				Outdoor unit only			

2-2 ELECTRICAL SPECIFICATIONS				RZQ125B7W1B	RZQ140B7W1B	RZQ200B7W1B	RZQ250B7W1B
Power Supply	Name			W1B	W1B	W1	W1
	Phase			3N	3N	3N~	3N~
	Frequency		Hz	50	50	50	50
	Voltage		V	400	400	400	400
Current	Nominal running current	Cooling	A	-	-	refer to electrical data indoor outdoor combination	
		Heating	A	-	-	refer to electrical data indoor outdoor combination	
	Starting current (cooling/heating)			-	-	refer to electrical data indoor outdoor combination	
	Maximum running current		A	-	-	refer to electrical data indoor outdoor combination	
	Recomended fuses		A	20	20	32	32
Voltage range	Minimum		V	360	360	360	360
	Maximum		V	440	440	440	440
Wiring connections	For Power Supply	Quantity		-		5	
		Remark		see installation manual 4PW21412-1		earth wire included	
	For connection with indoor	Quantity		-		4	
		Remark		see installation manual 4PW21412-1		earth wire included	
Power Supply Intake				Outdoor unit only			
Notes				See seperate drawings for electrical data Power supply to the FDQ indoor unit is separate			

NOTES

1 Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.

2 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m.

3 Electrical data

RZQ71-125B7

Unit combination		Power supply					Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQ71DV3B	RZQ71B8V3B	50-230	Max. 50Hz253V Min. 50Hz207V	16.8	16.8	20	16.2	16.2	0.07	0.3	0.030	0.3
FCQ71B7V3B	RZQ71B8V3B	50-230		17.1	17.1	20	16.2	16.2	0.07	0.3	0.045	0.6
FCQ35B7V1x2	RZQ71B8V3B	50-230		17.7	17.7	20	16.2	16.2	0.07	0.3	0.045x2	0.6x2
FFQ35BV1Bx2	RZQ71B8V3B	50-230		17.7	17.7	20	16.2	16.2	0.07	0.3	0.055x2	0.6x2
FBQ71B7V3B	RZQ71B8V3B	50-230		17.4	17.4	20	16.2	16.2	0.07	0.3	0.125	0.9
FBQ35B7V1x2	RZQ71B8V3B	50-230		17.5	17.5	20	16.2	16.2	0.07	0.3	0.065x2	0.5x2
FHQ71BUV1B	RZQ71B8V3B	50-230		17.1	17.1	20	16.2	16.2	0.07	0.3	0.062	0.6
FHQ35BUV1Bx2	RZQ71B8V3B	50-230		17.7	17.7	20	16.2	16.2	0.07	0.3	0.062x2	0.6x2
FAQ71BUV1B	RZQ71B8V3B	50-230		16.8	16.8	20	16.2	16.2	0.07	0.3	0.043	0.3
FUQ71BUV1B	RZQ71B8V3B	50-230		17.2	17.2	20	16.2	16.2	0.07	0.3	0.045	0.7
FCQ100DV3B	RZQ100B8V3B	50-230	Max. 50Hz253V Min. 50Hz207V	24.7	24.7	32	23.4	23.4	0.07+0.07	0.3+0.3	0.120	0.7
FCQ100B7V3B	RZQ100B8V3B	50-230		25.0	25.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.090	1.0
FCQ50B7V1x2	RZQ100B8V3B	50-230		25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x2	0.6x2
FCQ35B7V1x3	RZQ100B8V3B	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x3	0.6x3
FFQ50BV1Bx2	RZQ100B8V3B	50-230		25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x2	0.7x2
FFQ35BV1Bx3	RZQ100B8V3B	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x3	0.6x3
FBQ100B7V3B	RZQ100B8V3B	50-230		25.0	25.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.135	1.0
FBQ50B7V1x2	RZQ100B8V3B	50-230		25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.085x2	0.7x2
FBQ35B7V1x3	RZQ100B8V3B	50-230		25.5	25.5	32	23.4	23.4	0.07+0.07	0.3+0.3	0.065x3	0.5x3
FHQ100BUV1B	RZQ100B8V3B	50-230		24.7	24.7	32	23.4	23.4	0.07+0.07	0.3+0.3	0.130	0.7
FHQ50BUV1Bx2	RZQ100B8V3B	50-230		25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ35BUV1Bx3	RZQ100B8V3B	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FAQ100BUV1B	RZQ100B8V3B	50-230		24.4	24.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.049	0.4
FUQ100BUV1B	RZQ100B8V3B	50-230		25.1	25.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.090	1.1
FCQ125DV3B	RZQ125B8V3B	50-230	Max. 50Hz253V Min. 50Hz207V	24.7	24.7	32	23.4	23.4	0.07+0.07	0.3+0.3	0.120	0.7
FCQ125B7V3B	RZQ125B8V3B	50-230		25.0	25.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.090	1.0
FCQ60B7V1x2	RZQ125B8V3B	50-230		25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x2	0.6x2
FCQ50B7V1x3	RZQ125B8V3B	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x3	0.6x3
FCQ35B7V1x4	RZQ125B8V3B	50-230		26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.045x4	0.6x4
FFQ60BV1Bx2	RZQ125B8V3B	50-230		25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x2	0.7x2
FFQ50BV1Bx3	RZQ125B8V3B	50-230		26.1	26.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x3	0.7x3
FFQ35BV1Bx4	RZQ125B8V3B	50-230		26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.055x4	0.6x4
FBQ125B7V3B	RZQ125B8V3B	50-230		25.4	25.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.225	1.4
FBQ60B7V1x2	RZQ125B8V3B	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.125x2	0.9x2
FBQ50B7V1x3	RZQ125B8V3B	50-230		26.1	26.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.085x3	0.7x3
FBQ35B7V1x4	RZQ125B8V3B	50-230		26.0	26.0	32	23.4	23.4	0.07+0.07	0.3+0.3	0.065x4	0.5x4
FHQ125BUV1B	RZQ125B8V3B	50-230		24.7	24.7	32	23.4	23.4	0.07+0.07	0.3+0.3	0.130	0.7
FHQ60BUV1Bx2	RZQ125B8V3B	50-230		25.2	25.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ50BUV1Bx3	RZQ125B8V3B	50-230		25.8	25.8	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FHQ35BUV1Bx4	RZQ125B8V3B	50-230		26.4	26.4	32	23.4	23.4	0.07+0.07	0.3+0.3	0.062x4	0.6x4
FUQ125BUV1B	RZQ125B8V3B	50-230		25.1	25.1	32	23.4	23.4	0.07+0.07	0.3+0.3	0.090	1.1
FDQ125B7V3B	RZQ125B8V3B	50-230		28.2	28.2	32	23.4	23.4	0.07+0.07	0.3+0.3	0.500	4.2

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SYMBOLS

- MCA : Min. Circuit Amps (A)
- TOCA : Total Over Current Amps (A)
- MFA : Max. Fuse Amps (See note 7) (A)
- MSC : MSC means the max. current during the starting of compressor. (A)
- RLA : Rated Load Amps (A)
- OFM : Outdoor Fan Motor (A)
- IFM : Indoor Fan Motor
- FLA : Full Load Amps
- kW : Fan Motor Rated Output (kW)

NOTES

1. RLA is based on the following conditions:
   Power supply: 50Hz 230V
   Cooling
   Indoor temperature 27°CDB/19°CWB
   Outdoor temperature 35°CDB
   Heating
   Indoor temperature 20.0°CDB
   Outdoor temperature 7.0°CDB/6.0°CWB
2. TOCA means the total value of each OC set
3. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%
5. MCA represents maximum input current., MFA represents capacity which may accept MCA (next lower standard fuse rating, min.15A)
6. Select wire size based on the larger value of MCA or TOCA
7. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)
8. For more details concerning conditional connections, see http://www.daikineurope.com/extranet, select ”Daikin Documentation” and select ”conditional connection”, ”the requested product type” and ”English” from the drop down lists, click the search button. Finally, click on the document title of your choice.

3 Electrical data

3

RZQ71-125-140B7

Unit combination		Power supply					Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQ100DV3B	RZQ100B7W1B	50-400		14,2	14,2	20	12,9	12,9	0,07+0,07	0,3+0,3	0,120	0,7
FCQ100B7V3B	RZQ100B7W1B	50-400		14,5	14,5	20	12,9	12,9	0,07+0,07	0,3+0,3	0,090	1,0
FCQ50B7V1x2	RZQ100B7W1B	50-400		14,7	14,7	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x2	0,6x2
FCQ35B7V1x3	RZQ100B7W1B	50-400		15,3	15,3	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x3	0,6x3
FFQ50BV1Bx2	RZQ100B7W1B	50-400		14,9	14,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,055x2	0,7x2
FFQ35BV1Bx3	RZQ100B7W1B	50-400		15,3	15,3	20	12,9	12,9	0,07+0,07	0,3+0,3	0,055x3	0,6x3
FBQ100B7V3B	RZQ100B7W1B	50-400	Max, 50Hz440V	14,5	14,5	20	12,9	12,9	0,07+0,07	0,3+0,3	0,135	1,0
FBQ50B7V1x2	RZQ100B7W1B	50-400	Min, 50Hz360V	14,9	14,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,085x2	0,7x2
FBQ35B7V1x3	RZQ100B7W1B	50-400		15,0	15,0	20	12,9	12,9	0,07+0,07	0,3+0,3	0,065x3	0,5x3
FHQ100BUV1B	RZQ100B7W1B	50-400		14,2	14,2	20	12,9	12,9	0,07+0,07	0,3+0,3	0,130	0,7
FHQ50BUV1Bx2	RZQ100B7W1B	50-400		14,7	14,7	20	12,9	12,9	0,07+0,07	0,3+0,3	0,062x2	0,6x2
FHQ35BUV1Bx3	RZQ100B7W1B	50-400		15,3	15,3	20	12,9	12,9	0,07+0,07	0,3+0,3	0,062x3	0,6x3
FAQ100BUV1B	RZQ100B7W1B	50-400		13,9	13,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,049	0,4
FUQ100BUV1B	RZQ100B7W1B	50-400		14,6	14,6	20	12,9	12,9	0,07+0,07	0,3+0,3	0,090	1,1
FCQ125DV3B	RZQ125B7W1B	50-400		14,2	14,2	20	12,9	12,9	0,07+0,07	0,3+0,3	0,120	0,7
FCQ125B7V3B	RZQ125B7W1B	50-400		14,5	14,5	20	12,9	12,9	0,07+0,07	0,3+0,3	0,090	1,0
FCQ60B7V1x2	RZQ125B7W1B	50-400		14,7	14,7	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x2	0,6x2
FCQ50B7V1x3	RZQ125B7W1B	50-400		15,3	15,3	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x3	0,6x3
FCQ35B7V1x4	RZQ125B7W1B	50-400		15,9	15,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x4	0,6x4
FFQ60BV1Bx2	RZQ125B7W1B	50-400		14,9	14,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,055x2	0,7x2
FFQ50BV1Bx3	RZQ125B7W1B	50-400		15,6	15,6	20	12,9	12,9	0,07+0,07	0,3+0,3	0,055x3	0,7x3
FFQ35BV1Bx4	RZQ125B7W1B	50-400		15,9	15,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,055x4	0,6x4
FBQ125B7V3B	RZQ125B7W1B	50-400	Max, 50Hz440V	14,9	14,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,225	1,4
FBQ60B7V1x2	RZQ125B7W1B	50-400	Min, 50Hz360V	15,3	15,3	20	12,9	12,9	0,07+0,07	0,3+0,3	0,125x2	0,9x2
FBQ50B7V1x3	RZQ125B7W1B	50-400		15,6	15,6	20	12,9	12,9	0,07+0,07	0,3+0,3	0,085x3	0,7x3
FBQ35B7V1x4	RZQ125B7W1B	50-400		15,5	15,5	20	12,9	12,9	0,07+0,07	0,3+0,3	0,065x4	0,5x4
FHQ125BUV1B	RZQ125B7W1B	50-400		14,2	14,2	20	12,9	12,9	0,07+0,07	0,3+0,3	0,130	0,7
FHQ60BUV1Bx2	RZQ125B7W1B	50-400		14,7	14,7	20	12,9	12,9	0,07+0,07	0,3+0,3	0,062x2	0,6x2
FHQ50BUV1Bx3	RZQ125B7W1B	50-400		15,3	15,3	20	12,9	12,9	0,07+0,07	0,3+0,3	0,062x3	0,6x3
FHQ35BUV1Bx4	RZQ125B7W1B	50-400		15,9	15,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,062x4	0,6x4
FUQ125BUV1B	RZQ125B7W1B	50-400		14,6	14,6	20	12,9	12,9	0,07+0,07	0,3+0,3	0,090	1,1
FDQ125B7V3B	RZQ125B7W1B	50-400		17,7	17,7	20	12,9	12,9	0,07+0,07	0,3+0,3	0,500	4,2
FCQ140DV3B	RZQ140B7W1B	50-400		14,2	14,2	20	12,9	12,9	0,07+0,07	0,3+0,3	0,120	0,7
FCQ71DV3Bx2	RZQ140B7W1B	50-400		14,1	14,1	20	12,9	12,9	0,07+0,07	0,3+0,3	0,030x2	0,3x2
FCQ71B7V3Bx2	RZQ140B7W1B	50-400		14,7	14,7	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x2	0,6x2
FCQ50B7V1x3	RZQ140B7W1B	50-400		14,7	14,7	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x2	0,6x2
FCQ35B7V1x4	RZQ140B7W1B	50-400		15,9	15,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x4	0,6x4
FFQ50BV1Bx3	RZQ140B7W1B	50-400		15,6	15,6	20	12,9	12,9	0,07+0,07	0,3+0,3	0,055x3	0,7x3
FFQ35BV1Bx4	RZQ140B7W1B	50-400	Max, 50Hz440V	15,9	15,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,055x4	0,6x4
FBQ71B7V3Bx2	RZQ140B7W1B	50-400	Min, 50Hz360V	15,3	15,3	20	12,9	12,9	0,07+0,07	0,3+0,3	0,125x2	0,9x2
FBQ50B7V1x3	RZQ140B7W1B	50-400		15,6	15,6	20	12,9	12,9	0,07+0,07	0,3+0,3	0,085x3	0,7x3
FBQ35B7V1x4	RZQ140B7W1B	50-400		15,5	15,5	20	12,9	12,9	0,07+0,07	0,3+0,3	0,065x4	0,5x4
FHQ71BUV1Bx2	RZQ140B7W1B	50-400		14,7	14,7	20	12,9	12,9	0,07+0,07	0,3+0,3	0,062x2	0,6x2
FHQ50BUV1Bx3	RZQ140B7W1B	50-400		15,3	15,3	20	12,9	12,9	0,07+0,07	0,3+0,3	0,062x3	0,6x3
FHQ35BUV1Bx4	RZQ140B7W1B	50-400		15,9	15,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,062x4	0,6x4
FAQ71BUV1Bx2	RZQ140B7W1B	50-400		14,1	14,1	20	12,9	12,9	0,07+0,07	0,3+0,3	0,043x2	0,3x2
FUQ71BUV1Bx2	RZQ140B7W1B	50-400		14,9	14,9	20	12,9	12,9	0,07+0,07	0,3+0,3	0,045x2	0,7x2

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SYMBOLS

MCA	: Min. Circuit Amps (A)
TOCA	: Total Over Current Amps (A)
MFA	: Max. Fuse Amps (See note 7) (A)
MSC	: MSC means the max. current during the starting of compressor. (A)
RLA	: Rated Load Amps (A)
OFM	: Outdoor Fan Motor (A)
IFM	: Indoor Fan Motor
FLA	: Full Load Amps
kW	: Fan Motor Rated Output (kW)

NOTES

1. RLA is based on the following conditions:
   Power supply: 50Hz 230V
   Cooling
   Indoor temperature 27°CDB/19°CWB
   Outdoor temperature 35°CDB
   Heating
   Indoor temperature 20.0°CDB
   Outdoor temperature 7.0°CDB/6.0°CWB
2. TOCA means the total value of each OC set
3. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%
5. MCA represents maximum input current., MFA represents capacity which may accept MCA (next lower standard fuse rating, min.15A)
6. Select wire size based on the larger value of MCA or TOCA
7. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)
8. For more details concerning conditional connections, see http://www.daikineurope.com/extranet, select ”Daikin Documentation” and select ”conditional connection”, ”the requested product type” and ”English” from the drop down lists, click the search button. Finally, click on the document title of your choice.

3 Electrical data

RZQ200-250B7

Unit combination		Power supply					Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQ50B7V1 x 4	RZQ200B7W1B	50 - 400	Max. 50Hz 440V Min. 50Hz 360V	21.9	29.8	32	71	8.8	0.75	0.7	0.045 x 4	0.6 x 4
FCQ60B7V1 x 3	RZQ200B7W1B	50 - 400		21.3	29.8	32	71	8.8	0.75	0.7	0.045 x 3	0.6 x 3
FCQ71B7V3B x 3	RZQ200B7W1B	50 - 400		21.3	29.8	32	71	8.8	0.75	0.7	0.045 x 3	0.6 x 3
FCQ100B7V3B x 2	RZQ200B7W1B	50 - 400		21.5	29.8	32	71	8.8	0.75	0.7	0.090 x 2	1.0 x 2
FFQ50BV1B x 4	RZQ200B7W1B	50 - 400		22.3	29.8	32	71	8.8	0.75	0.7	0.055 x 4	0.7 x 4
FFQ60BV1B x 3	RZQ200B7W1B	50 - 400		21.6	29.8	32	71	8.8	0.75	0.7	0.055 x 3	0.7 x 3
FBQ50B7V1 x 4	RZQ200B7W1B	50 - 400		22.3	29.8	32	71	8.8	0.75	0.7	0.085 x 4	0.7 x 4
FBQ60B7V1 x 3	RZQ200B7W1B	50 - 400		22.2	29.8	32	71	8.8	0.75	0.7	0.125 x 3	0.9 x 3
FBQ71B7V3B x 3	RZQ200B7W1B	50 - 400		22.2	29.8	32	71	8.8	0.75	0.7	0.125 x 3	0.9 x 3
FBQ100B7V3B x 2	RZQ200B7W1B	50 - 400		21.5	29.8	32	71	8.8	0.75	0.7	0.135 x 2	1.0 x 2
FHQ50BUV1B x 4	RZQ200B7W1B	50 - 400		21.9	29.8	32	71	8.8	0.75	0.7	0.062 x 4	0.6 x 4
FHQ60BUV1B x 3	RZQ200B7W1B	50 - 400		21.3	29.8	32	71	8.8	0.75	0.7	0.062 x 3	0.6 x 3
FHQ71BUV1B x 3	RZQ200B7W1B	50 - 400		21.3	29.8	32	71	8.8	0.75	0.7	0.062 x 3	0.6 x 3
FHQ100BUV1B x 2	RZQ200B7W1B	50 - 400		20.9	29.8	32	71	8.8	0.75	0.7	0.130 x 2	0.7 x 2
FUQ71BUV1B x 3	RZQ200B7W1B	50 - 400		21.6	29.8	32	71	8.8	0.75	0.7	0.045 x 3	0.7 x 3
FUQ100BUV1B x 2	RZQ200B7W1B	50 - 400		21.7	29.8	32	71	8.8	0.75	0.7	0.090 x 2	1.1 x 2
FAQ71BUV1B x 3	RZQ200B7W1B	50 - 400		20.4	29.8	32	71	8.8	0.75	0.7	0.043 x 3	0.3 x 3
FAQ100BUV1B x 2	RZQ200B7W1B	50 - 400		20.3	29.8	32	71	8.8	0.75	0.7	0.049 x 2	0.4 x 2
FDQ200B7V3B	RZQ200B7W1B	50 - 400		19.5	29.8	32	71	8.8	0.75	0.7	0.650	6.8
FCQ60B7V1 x 4	RZQ250B7W1B	50 - 400	Max. 50Hz 440V Min. 50Hz 360V	24.8	29.8	32	71	11.8	0.75	0.7	0.045 x 4	0.6 x 4
FCQ125B7V3B x 2	RZQ250B7W1B	50 - 400		24.4	29.8	32	71	11.8	0.75	0.7	0.090 x 2	1.0 x 2
FFQ60BV1B x 4	RZQ250B7W1B	50 - 400		25.2	29.8	32	71	11.8	0.75	0.7	0.055 x 4	0.7 x 4
FBQ60B7V1 x 4	RZQ250B7W1B	50 - 400		26.0	29.8	32	71	11.8	0.75	0.7	0.125 x 4	0.9 x 4
FBQ125B7V3B x 2	RZQ250B7W1B	50 - 400		25.2	29.8	32	71	11.8	0.75	0.7	0.225 x 2	1.4 x 2
FHQ60BUV1B x 4	RZQ250B7W1B	50 - 400		24.8	29.8	32	71	11.8	0.75	0.7	0.062 x 4	0.6 x 4
FHQ125BUV1B x 2	RZQ250B7W1B	50 - 400		23.8	29.8	32	71	11.8	0.75	0.7	0.130 x 2	0.7 x 2
FUQ125BUV1B x 2	RZQ250B7W1B	50 - 400		24.6	29.8	32	71	11.8	0.75	0.7	0.090 x 2	1.1 x 2
FDQ125B7V3B x 2	RZQ250B7W1B	50 - 400		22.4	29.8	32	71	11.8	0.75	0.7	0.500 x 2	4.2 x 2
FDQ250B7V3B	RZQ250B7W1B	50 - 400		22.4	29.8	32	71	11.8	0.75	0.7	1.000	7.6

3TW26561-4A

SYMBOLS

MCA : Min. Circuit Amps (A)
TOCA : Total Over Current Amps (A)
MFA : Max. Fuse Amps (A)
MSC : MSC means the max. current during the starting of compressor. (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps
kW : Fan Motor Rated Output (kW)

NOTES

1. RLA is based on the following conditions:
   Power supply: 50Hz - 400V
   Cooling
   Indoor temperature 27°CDB/19°CWB
   Outdoor temperature 35°CDB
   Heating
   Indoor temperature 20.0°CDB
   Outdoor temperature 7.0°CDB/6.0°CWB
2. TOCA means the total value of each OC set
3. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%
5. MCA represents maximum input current, MFA represents capacity which may accept MCA
   (next lower standard fuse rating, min.15A)
6. Select wire size based on the larger value of MCA or TOCA
7. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)
8. For more details concerning conditional connections, see http://www.daikineurope.com/extranet, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button. Finally, click on the document title of your choice.

4 Options

RZQ71~140B7V3B

Name of option		Kit name			
		RZQ71B7V3B	RZQ100B8V3B	RZQ125B8V3B	
			RZQ100B7W1B	RZQ125B7W1B	RZQ140B7W1B
Central drain plug		KKPJ5F180			
Refrigerant branch piping	Twin	KHRQ22M20TA7			
	Triple	-	KHRQ127H7		
	Double twin	-	-	KHRQ22M20TA7 (3x)	
Demand adapter kit		KRP58M51			

3TW26739-1

Available options for RZQ200,250B7W1B

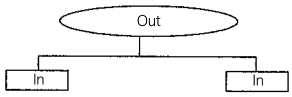
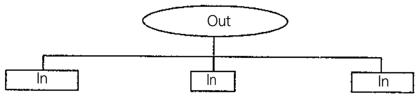
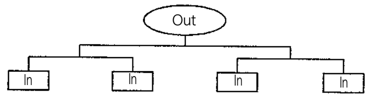
Name of option		Kit name	
		RZQ200B7W1B	RZQ250B7W1B
Central drain pan kit		KWC26B280	
Refrigerant branch piping	Twin	KHRQ22M20TA7	
	Triple	KHRQ250H7	
	Double twin	KHRQ22M20TA7 (3x)	

4TW26569-3

5 Capacity tables

5 - 1 Combination table

Possible combinations and standard capacity for twin, triple and double twin application

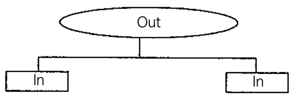
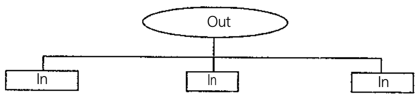
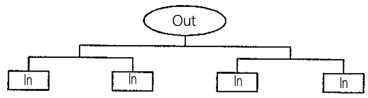
	Possible indoor combination		
	Simultaneous operation		
Outdoor models	Twin	Triple	Double twin
			
RZQ71B8V3B	35-35 (KHRQ22M20TA7)		
RZQ100B8V3B RZQ100B7W1B	50-50 (KHRQ22M20TA7)	35-35-35 (KHRQ127H7)	
RZQ125B8V3B RZQ125B7W1B	60-60 (KHRQ22M20TA7)	50-50-50 (KHRQ127H7)	35-35-35-35 (3x KHRQ22M20TA7)
RZQ140B7W1B	71-71 (KHRQ22M20TA7)	50-50-50 (KHRQ127H7)	35-35-35-35 (3x KHRQ22M20TA7)

3TW26739-2

NOTES

1 Possible indoor units: FCQ35-71, FFQ35-60, FHQ35-71, FBQ35-71, FUQ71, FAQ71
2 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
3 When different indoor models are used in combination, designate the infrared remote control that is equipped with the most functions as the main unit.
In note 1 are the indoor units mentioned in order of the possible function (most functions are on FCQ, less functions are on FAQ).
4 Between brackets are the required Refnet kits mentioned, that are necessary to install the combination.

Possible combinations and standard capacity for twin, triple and double twin operation

	Possible indoor combination		
	Simultaneous operation		
Outdoor models	Twin	Triple	Double twin
			
RZQ200B7W1B	100-100 (KHRQ22M20TA7)	60-60-60 71-71-71 (KHRQ250H7)	50-50-50-50 (3x KHRQ22M20TA7)
RZQ250B7W1B	125-125 (KHRQ22M20TA7)	- - -	60-60-60-60 (3x KHRQ22M20TA7)

3TW26569-2

NOTES

1 Possible indoor units: FCQ50-125, FFQ50-60, FHQ50-125, FBQ50-125, FAQ71-100, FUQ71-125, FDQ125
2 Individual indoor capacities are not given because the combinations are for simultaneous operation (=indoor units installed in same room).
3 When different indoor models are used in combination, designate the infrared remote controller that is equipped with the most functions as the main unit.
In note 1 are the indoor units mentioned in order of the possible function (most functions are on FCQ, less functions are on FAQ).
4 Between brackets are the required Refnet kits mentioned, that are necessary to install the combination.

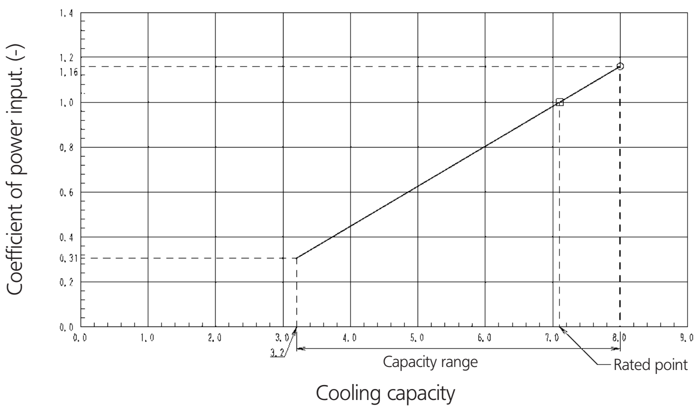
5 Capacity tables

5 - 2 Cooling capacity tables

5

RZQ71B8V3B

Cooling



Cooling capacity **230V [50Hz]**

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	6.47	4.39	0.76	6.46	4.43	0.89	6.66	4.62	0.99	6.39	4.49	1.09
18.0	25	7.43	4.82	0.83	7.20	4.72	0.91	6.95	4.61	1.00	6.67	4.47	1.10
19.0	27	7.58	4.80	0.84	7.35	4.71	0.91	7.10	4.60	1.00	6.82	4.46	1.10
19.5	27	7.66	4.79	0.84	7.43	4.70	0.91	7.17	4.59	1.00	6.89	4.46	1.10
22.0	30	8.05	4.73	0.85	7.81	4.64	0.92	7.55	4.54	1.01	7.26	4.41	1.11
24.0	32	8.37	4.66	0.85	8.12	4.58	0.93	7.85	4.48	1.02	7.55	4.35	1.12

3D048602

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ▭ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.
   Pair

Model	FCQ71D	FCQ71B	FBQ71	FHQ71	FAQ71	FUQ71
AFR (BF)	19 (0.10)	18 (0.10)	19 (0.11)	17 (0.10)	19 (0.08)	19 (0.07)

Twin

Model	FCQ35x2	FFQ35x2	FBQ35x2	FHQ35x2
AFR (BF)	14x2 (0.16x2)	10x2 (0.25x2)	11.5x2 (0.15x2)	13x2 (0.2x2)

10. Rated power input of each model is tabulated below.
    Pair

Model	FCQ71D	FCQ71B	FBQ71	FHQ71	FAQ71	FUQ71
Cooling	1.98	2.16	2.14	2.46	2.36	2.21
Heating	1.97	2.56	2.09	2.67	2.42	2.34

Twin

Model	FCQ35x2	FFQ35x2	FBQ35x2	FHQ35x2
Cooling	2.27	2.29	2.25	2.53
Heating	2.62	2.64	2.20	2.81

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

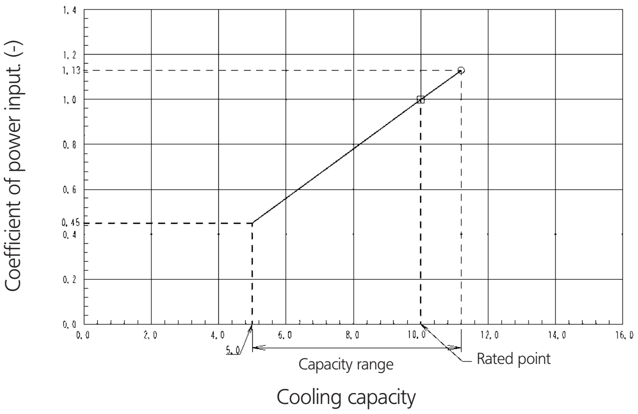
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ100B8V3B (Pair + Twin/triple)

Cooling



Cooling capacity **230V [50Hz]**

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	9.12	6.19	0.76	9.10	6.25	0.89	9.38	6.51	0.99	9.00	6.32	1.09
18.0	25	10.5	6.78	0.83	10.1	6.65	0.91	9.79	6.49	1.00	9.40	6.30	1.10
19.0	27	10.7	6.76	0.84	10.4	6.63	0.91	10.0	6.48	1.00	9.60	6.29	1.10
19.5	27	10.8	6.75	0.84	10.5	6.62	0.91	10.1	6.47	1.00	9.71	6.28	1.10
22.0	30	11.3	6.66	0.85	11.0	6.54	0.92	10.6	6.39	1.01	10.2	6.21	1.11
24.0	32	11.8	6.57	0.85	11.4	6.45	0.93	11.1	6.30	1.02	10.6	6.13	1.12

3D048603

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ▭ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
AFR (BF)	30 (0.11)	28 (0.16)	27 (0.20)	24 (0.14)	23 (0.10)	29 (0.07)

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR (BF)	14x3 (0.16x3)	10x3 (0.25x3)	11.5x3 (0.15x3)	13x3 (0.2x3)

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
AFR (BF)	15x2 (0.16x2)	12x2 (0.16x2)	14x2 (0.15x2)	13x2 (0.1x2)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.44	2.64	2.86	3.15	2.78	3.12
Heating	2.56	3.14	3.00	3.60	3.39	3.28

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

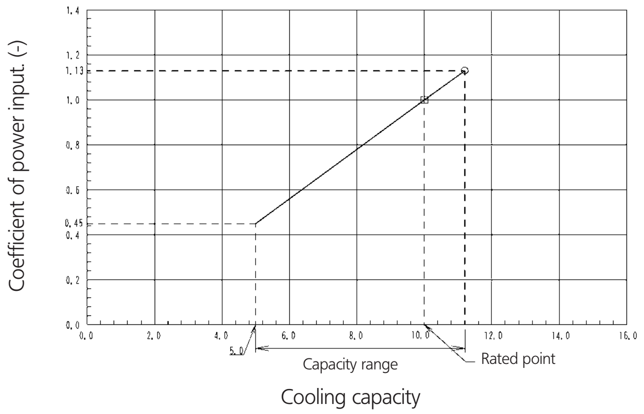
5 Capacity tables

5 - 2 Cooling capacity tables

5

RZQ100B7W1B (Pair + Twin/triple)

Cooling



Cooling capacity **400V [50Hz]**

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	9.12	6.19	0.76	9.10	6.25	0.89	9.38	6.51	0.99	9.00	6.32	1.09
18.0	25	10.5	6.78	0.83	10.1	6.65	0.91	9.79	6.49	1.00	9.40	6.30	1.10
19.0	27	10.7	6.76	0.84	10.4	6.63	0.91	10.0	6.48	1.00	9.60	6.29	1.10
19.5	27	10.8	6.75	0.84	10.5	6.62	0.91	10.1	6.47	1.00	9.71	6.28	1.10
22.0	30	11.3	6.66	0.85	11.0	6.54	0.92	10.6	6.39	1.01	10.2	6.21	1.11
24.0	32	11.8	6.57	0.85	11.4	6.45	0.93	11.1	6.30	1.02	10.6	6.13	1.12

3D048605

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ☐ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
AFR (BF)	30 (0.11)	28 (0.16)	27 (0.20)	24 (0.14)	23 (0.10)	29 (0.07)

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
AFR (BF)	15x2 (0.16x2)	12x2 (0.16x2)	14x2 (0.15x2)	13x2 (0.1x2)

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR (BF)	14x3 (0.16x3)	10x3 (0.25x3)	11.5x3 (0.15x3)	13x3 (0.2x3)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.44	2.64	2.86	3.15	2.78	3.12
Heating	2.56	3.14	3.00	3.60	3.39	3.28

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

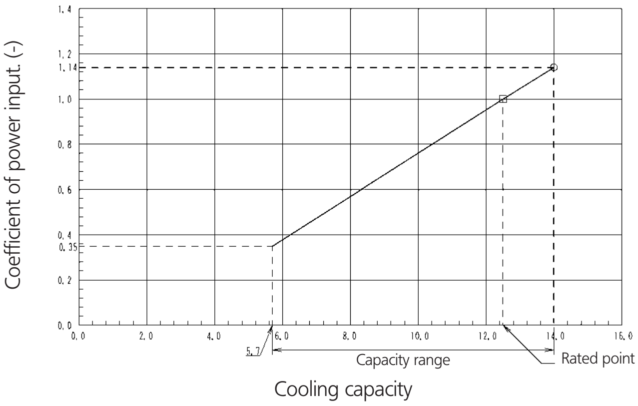
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ125B8V3B (Pair + Twin / triple / double twin)

Cooling



Cooling capacity **230V [50Hz]**

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	11.4	7.73	0.76	11.4	7.81	0.89	11.7	8.14	0.99	11.3	7.90	1.09
18.0	25	13.1	8.48	0.83	12.7	8.32	0.91	12.2	8.12	1.00	11.8	7.88	1.10
19.0	27	13.3	8.45	0.84	12.9	8.29	0.91	12.5	8.09	1.00	12.0	7.86	1.10
19.5	27	13.5	8.44	0.84	13.1	8.28	0.91	12.6	8.08	1.00	12.1	7.85	1.10
22.0	30	14.2	8.33	0.85	13.8	8.18	0.92	13.3	7.99	1.01	12.8	7.76	1.11
24.0	32	14.7	8.21	0.85	14.3	8.06	0.93	13.8	7.88	1.02	13.3	7.67	1.12

3D048604A

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ▭ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
AFR (BF)	30 (0.13)	31 (0.07)	35 (0.14)	30 (0.13)	32 (0.07)	45 (0.25)

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR (BF)	18x2 (0.1x2)	15x2 (0.11x2)	19x2 (0.11x2)	17x2 (0.2x2)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ35x3	FHQ50x3
AFR (BF)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.15x3)	13x3 (0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	14x4 (0.16x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.54	3.88	3.98	4.45	4.05	4.15
Heating	3.59	4.36	3.99	4.50	4.36	3.69

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

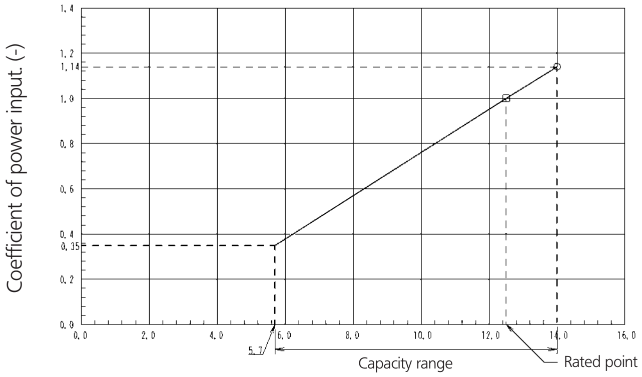
5 Capacity tables

5 - 2 Cooling capacity tables

5

RZQ125B7W1B (Pair + Twin / triple / double twin)

Cooling



Cooling capacity **400V [50Hz]**

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	11.4	7.73	0.76	11.4	7.81	0.89	11.7	8.14	0.99	11.3	7.90	1.09
18.0	25	13.1	8.48	0.83	12.7	8.32	0.91	12.2	8.12	1.00	11.8	7.88	1.10
19.0	27	13.3	8.45	0.84	12.9	8.29	0.91	12.5	8.09	1.00	12.0	7.86	1.10
19.5	27	13.5	8.44	0.84	13.1	8.28	0.91	12.6	8.08	1.00	12.1	7.85	1.10
22.0	30	14.2	8.33	0.85	13.8	8.18	0.92	13.3	7.99	1.01	12.8	7.76	1.11
24.0	32	14.7	8.21	0.85	14.3	8.06	0.93	13.8	7.88	1.02	13.3	7.67	1.12

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NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ☐ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
AFR (BF)	30 (0.13)	31 (0.07)	35 (0.14)	30 (0.13)	32 (0.07)	45 (0.25)

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR (BF)	18x2 (0.1x2)	15x2 (0.11x2)	19x2 (0.11x2)	17x2 (0.2x2)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ35x3	FHQ50x3
AFR (BF)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.15x3)	13x3 (0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	14x4 (0.16x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.54	3.88	3.98	4.45	4.05	4.15
Heating	3.59	4.36	3.99	4.50	4.36	3.69

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

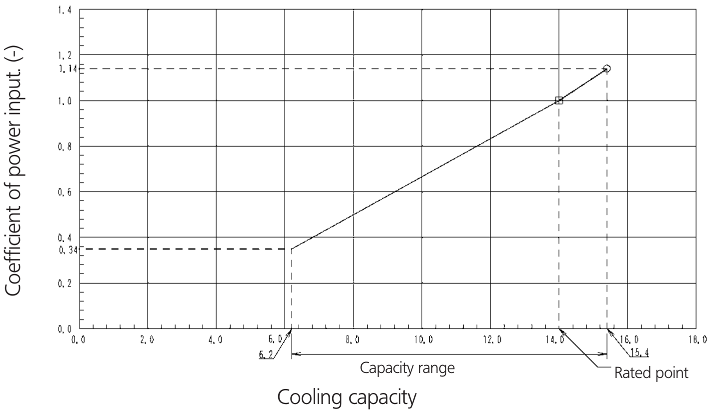
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ140B7W1B (Pair + Twin / triple / double twin)

Cooling



Cooling capacity **400V [50Hz]**

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	12.8	8.66	0.76	12.7	8.74	0.89	13.1	9.12	0.99	12.6	8.84	1.09
18.0	25	14.6	9.50	0.83	14.2	9.31	0.91	13.7	9.09	1.00	13.2	8.82	1.10
19.0	27	15.0	9.47	0.84	14.5	9.29	0.91	14.0	9.07	1.00	13.4	8.80	1.10
19.5	27	15.1	9.45	0.84	14.7	9.27	0.91	14.1	9.05	1.00	13.6	8.79	1.10
22.0	30	15.9	9.33	0.85	15.4	9.16	0.92	14.9	8.95	1.01	14.3	8.69	1.11
24.0	32	16.5	9.20	0.85	16.0	9.03	0.93	15.5	8.83	1.02	14.9	8.59	1.12

3D048607

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ▭ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ140D
AFR (BF)	30 (0.07)

Twin

Model	FCQ71Bx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
AFR (BF)	18x2 (0.1x2)	19x2 (0.11x2)	17x2 (0.1x2)	19x2 (0.07x2)	19x2 (0.08x2)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR (BF)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.15x3)	13x3 (0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	14x4 (0.16x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ140D
Cooling	4.65
Heating	4.52

Twin

Model	FCQ71Bx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
Cooling	4.81	4.95	4.99	4.99	4.92
Heating	5.52	5.06	5.69	5.05	5.22

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.81	4.86	4.95	4.99
Heating	5.52	5.11	5.06	5.69

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.81	4.86	4.95	4.99
Heating	5.52	5.11	5.06	5.69

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

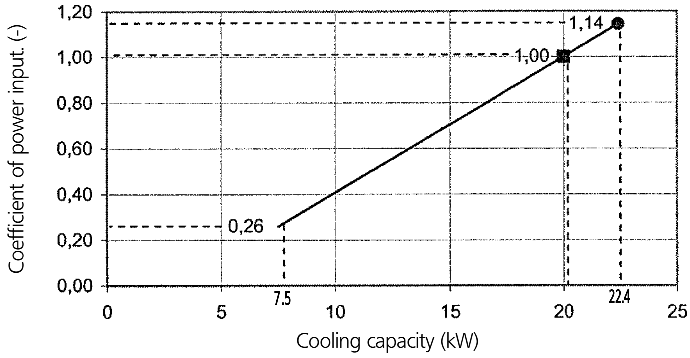
5 Capacity tables

5 - 2 Cooling capacity tables

5

RZQ200B7W1B (Pair / Twin / Triple / Double twin)

Cooling



Cooling capacity **400V [50Hz]**

Indoor	Outdoor temperature (°CDB)											
	25			30			35			40		
°CWB	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16	20.2	17.0	0.82	19.4	16.3	0.90	18.6	15.5	0.98	17.7	14.8	1.06
18	21.3	17.1	0.83	20.4	16.4	0.91	19.5	15.7	0.99	18.6	14.9	1.07
19	21.8	17.1	0.84	20.9	16.4	0.92	20.0	15.6	1.00	19.1	14.9	1.08
20	22.3	17.1	0.84	21.4	16.4	0.92	20.5	15.6	1.01	19.6	14.9	1.09
22	23.4	17.0	0.85	22.4	16.3	0.94	21.4	15.6	1.02	20.5	14.9	1.10
24	24.4	16.8	0.86	23.4	16.1	0.95	22.4	15.4	1.03	21.4	14.7	1.12

3TW26561-2A

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark with ● show the max. total capacity at standard conditions.
   On the figure the mark with ■ show rated capacity and rated coefficient of power input.
   However, only rated capacity & CPI are guaranteed (maximal values NOT).
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. Rated values are guaranteed. Other values are accurate within an error of 5%.
8. Heating capacity includes capacity drop due to defrost operation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FDQ200
AFR (BF)	69 0.31

Twin

Model	FCQ100x2	FBQ100x2	FHQ100x2	FUQ100x2	FAQ100x2
AFR (BF)	28x2 (0.16x2)	27x2 (0.2x2)	24x2 (0.14x2)	29x2 (0.07x2)	23x2 (0.1x2)

Triple

Model	FCQ60x3	FCQ71x3	FFQ60x3	FBQ60x3	FBQ71x3	FHQ60x3	FHQ71x3	FUQ71x3	FAQ71x3
AFR (BF)	18x3 (0.1x3)	18x3 (0.1x3)	15x3 (0.11x3)	19x3 (0.11x3)	19x3 (0.11x3)	17x3 (0.2x3)	17x3 (0.1x3)	19x3 (0.07x3)	19x3 (0.08x3)

Double twin

Model	FCQ50x4	FFQ50x4	FBQ50x4	FHQ50x4
AFR (BF)	15x4 (0.16x4)	12x4 (0.16x4)	14x4 (0.15x4)	13x4 (0.1x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FDQ200
Cooling	6.43
Heating	7.54

Twin

Model	FCQ100x2	FBQ100x2	FHQ100x2	FUQ100x2	FAQ100x2
Cooling	5.87	6.36	7.00	6.93	6.18
Heating	7.16	6.85	8.21	7.48	7.74

Triple

Model	FCQ60x3	FCQ71x3	FFQ60x3	FBQ60x3	FBQ71x3	FHQ60x3	FHQ71x3	FUQ71x3	FAQ71x3
Cooling	6.18	6.18	6.20	6.69	6.69	7.37	7.37	7.30	6.50
Heating	7.54	7.54	7.32	7.21	7.21	8.65	8.65	7.88	8.14

Double twin

Model	FCQ50x4	FFQ50x4	FBQ50x4	FHQ50x4
Cooling	6.18	6.20	6.69	7.37
Heating	7.54	7.32	7.21	8.65

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

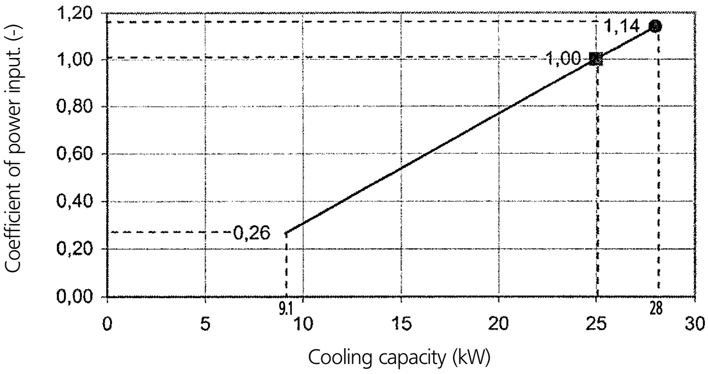
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQ250B7W1B (Pair / Twin / Double twin)

Cooling



Cooling capacity **400V [50Hz]**

Indoor	Outdoor temperature (°CDB)											
	25			30			35			40		
°CWB	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16	25.4	21.5	0.79	24.4	20.7	0.88	23.4	19.8	0.98	22.3	19.0	1.08
18	26.6	21.5	0.80	25.5	20.6	0.89	24.5	19.8	0.99	23.4	18.9	1.09
19	27.2	21.5	0.80	26.1	20.6	0.90	25.0	19.8	1.00	23.9	19.0	1.10
20	27.8	21.4	0.81	26.7	20.5	0.91	25.5	19.7	1.01	24.4	18.9	1.11
22	29.0	21.2	0.81	27.8	20.3	0.92	26.6	19.5	1.02	25.5	18.7	1.12
24	30.2	20.9	0.82	29.0	20.1	0.93	27.7	19.3	1.03	26.5	18.4	1.13

3TW26571-2A

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark with ● show the max. total capacity at standard conditions.
   On the figure the mark with ■ show rated capacity and rated coefficient of power input.
   However, only rated capacity & CPI are guaranteed (maximal values NOT).
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. Rated values are guaranteed. Other values are accurate within an error of 5%.
8. Heating capacity includes capacity drop due to defrost operation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FDQ250
AFR (BF)	89 0.34

Twin

Model	FCQ125x2	FBQ125x2	FHQ125x2	FUQ125x2	FDQ125x2
AFR (BF)	31x2 (0.07x2)	35x2 (0.14x2)	30x2 (0.13x2)	32x2 (0.07x2)	45x2 (0.25x2)

Double twin

Model	FCQ60x4	FFQ60x4	FBQ60x4	FHQ60x4
AFR (BF)	18x4 (0.1x4)	15x4 (0.11x4)	19x4 (0.11x4)	17x4 (0.2x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FDQ250
Cooling	8.30
Heating	8.85

Twin

Model	FCQ125x2	FBQ125x2	FHQ125x2	FUQ125x2	FDQ125x2
Cooling	8.62	8.84	9.89	9.00	9.22
Heating	9.34	8.55	9.64	9.34	7.91

Double twin

Model	FCQ60x4	FFQ60x4	FBQ60x4	FHQ60x4
Cooling	9.08	9.18	9.31	10.41
Heating	9.83	9.13	9.00	10.15

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

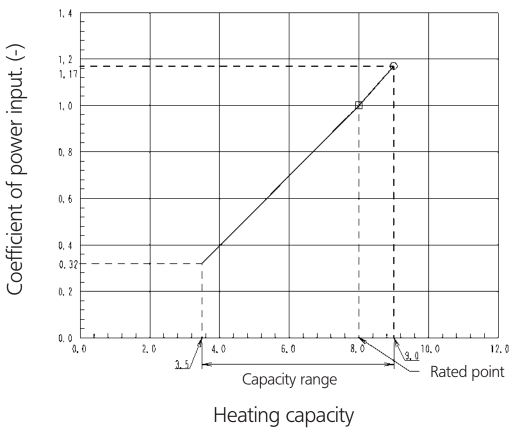
5 Capacity tables

5 - 3 Heating capacity tables

5

RZQ71B8V3B (Pair + Twin)

Heating



Heating capacity **230V [50Hz]**

Indoor	Outdoor temp. (°CWB)											
EDB	–15		–10		–5		0		6		10	
(°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	5.14	1.06	5.68	1.12	6.22	1.17	6.75	1.23	8.02	0.92	8.64	0.97
18.0	5.14	1.10	5.67	1.16	6.21	1.22	6.74	1.28	8.01	0.96	8.62	1.01
20.0	5.13	1.15	5.67	1.21	6.20	1.27	6.74	1.33	8.00	1.00	8.61	1.05
21.0	5.13	1.17	5.66	1.23	6.20	1.29	6.73	1.35	8.00	1.02	8.61	1.07
22.0	5.12	1.19	5.66	1.25	6.19	1.32	6.73	1.38	7.99	1.04	8.60	1.09
24.0	5.12	1.23	5.65	1.30	6.19	1.36	6.72	1.43	7.98	1.08	8.59	1.13

3D048602

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ☐ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.
   Pair

Model	FCQ71D	FCQ71B	FBQ71	FHQ71	FAQ71	FUQ71
AFR (BF)	19 (0.10)	18 (0.10)	19 (0.11)	17 (0.10)	19 (0.08)	19 (0.07)

Twin

Model	FCQ35x2	FFQ35x2	FBQ35x2	FHQ35x2
AFR (BF)	14x2 (0.16x2)	10x2 (0.25x2)	11.5x2 (0.15x2)	13x2 (0.2x2)

10. Rated power input of each model is tabulated below.
    Pair

Model	FCQ71D	FCQ71B	FBQ71	FHQ71	FAQ71	FUQ71
Cooling	1.98	2.16	2.14	2.46	2.36	2.21
Heating	1.97	2.56	2.09	2.67	2.42	2.34

Twin

Model	FCQ35x2	FFQ35x2	FBQ35x2	FHQ35x2
Cooling	2.27	2.29	2.25	2.53
Heating	2.62	2.64	2.20	2.81

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

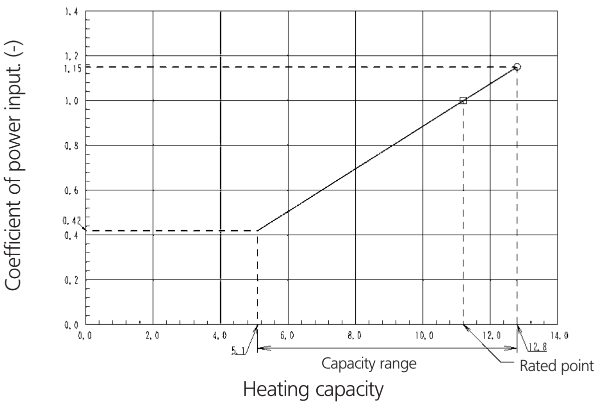
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQ100B8V3B (Pair + Twin/triple)

Heating



Heating capacity **230V [50Hz]**

Indoor	Outdoor temp. (°CWB)											
EDB	–15		–10		–5		0		6		10	
(°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	7.16	1.01	7.91	1.07	8.66	1.12	9.41	1.17	11.2	0.92	12.1	0.97
18.0	7.15	1.05	7.90	1.11	8.65	1.16	9.39	1.22	11.2	0.96	12.1	1.01
20.0	7.15	1.09	7.89	1.15	8.64	1.21	9.38	1.27	11.2	1.00	12.1	1.05
21.0	7.14	1.12	7.89	1.17	8.63	1.23	9.38	1.29	11.2	1.02	12.1	1.07
22.0	7.14	1.14	7.88	1.20	8.63	1.26	9.37	1.32	11.2	1.04	12.0	1.09
24.0	7.13	1.18	7.87	1.24	8.62	1.30	9.36	1.36	11.2	1.08	12.0	1.13

3D048603

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ☐ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
AFR (BF)	30 (0.11)	28 (0.16)	27 (0.20)	24 (0.14)	23 (0.10)	29 (0.07)

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
AFR (BF)	15x2 (0.16x2)	12x2 (0.16x2)	14x2 (0.15x2)	13x2 (0.1x2)

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR (BF)	14x3 (0.16x3)	10x3 (0.25x3)	11.5x3 (0.15x3)	13x3 (0.2x3)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.44	2.64	2.86	3.15	2.78	3.12
Heating	2.56	3.14	3.00	3.60	3.39	3.28

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

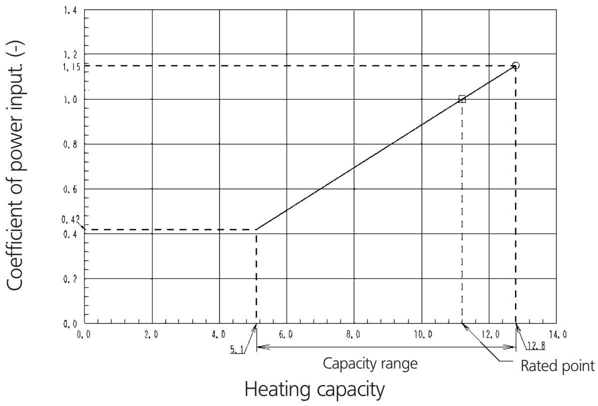
5 Capacity tables

5 - 3 Heating capacity tables

5

RZQ100B7W1B (Pair + Twin/triple)

Heating



Heating capacity **400V [50Hz]**

Indoor	Outdoor temp. (°CWB)											
EDB	–15		–10		–5		0		6		10	
(°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	7.16	1.01	7.91	1.07	8.66	1.12	9.41	1.17	11.2	0.92	12.1	0.97
18.0	7.15	1.05	7.90	1.11	8.65	1.16	9.39	1.22	11.2	0.96	12.1	1.01
20.0	7.15	1.09	7.89	1.15	8.64	1.21	9.38	1.27	11.2	1.00	12.1	1.05
21.0	7.14	1.12	7.89	1.17	8.63	1.23	9.38	1.29	11.2	1.02	12.1	1.07
22.0	7.14	1.14	7.88	1.20	8.63	1.26	9.37	1.32	11.2	1.04	12.0	1.09
24.0	7.13	1.18	7.87	1.24	8.62	1.30	9.36	1.36	11.2	1.08	12.0	1.13

3D048605

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ☐ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
AFR (BF)	30 (0.11)	28 (0.16)	27 (0.20)	24 (0.14)	23 (0.10)	29 (0.07)

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
AFR (BF)	15x2 (0.16x2)	12x2 (0.16x2)	14x2 (0.15x2)	13x2 (0.1x2)

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
AFR (BF)	14x3 (0.16x3)	10x3 (0.25x3)	11.5x3 (0.15x3)	13x3 (0.2x3)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ100D	FCQ100B	FBQ100	FHQ100	FAQ100	FUQ100
Cooling	2.44	2.64	2.86	3.15	2.78	3.12
Heating	2.56	3.14	3.00	3.60	3.39	3.28

Twin

Model	FCQ50Bx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

Triple

Model	FCQ35Bx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	2.78	2.79	3.01	3.32
Heating	3.31	3.21	3.16	3.79

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

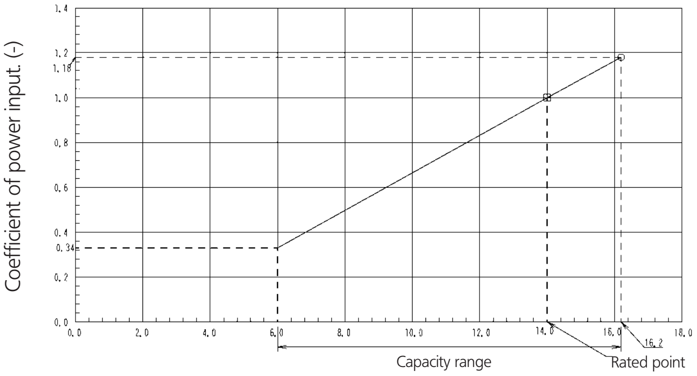
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQ125B8V3B (Pair + Twin / triple / double twin)

Heating



Heating capacity

Heating capacity

230V [50Hz]

Indoor	Outdoor temp. (°CWB)											
EDB	–15		–10		–5		0		6		10	
(°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	8.83	1.05	9.76	1.11	10.7	1.16	11.6	1.22	14.0	0.92	15.1	0.97
18.0	8.82	1.10	9.74	1.15	10.7	1.21	11.6	1.27	14.0	0.96	15.1	1.01
20.0	8.81	1.14	9.73	1.20	10.7	1.26	11.6	1.32	14.0	1.00	15.1	1.05
21.0	8.81	1.16	9.73	1.22	10.6	1.28	11.6	1.34	14.0	1.02	15.1	1.07
22.0	8.80	1.18	9.72	1.24	10.6	1.31	11.6	1.37	14.0	1.04	15.1	1.09
24.0	8.79	1.22	9.71	1.29	10.6	1.35	11.5	1.42	14.0	1.08	15.0	1.13

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NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ☐ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
AFR (BF)	30 (0.13)	31 (0.07)	35 (0.14)	30 (0.13)	32 (0.07)	45 (0.25)

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR (BF)	18x2 (0.1x2)	15x2 (0.11x2)	19x2 (0.11x2)	17x2 (0.2x2)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ35x3	FHQ50x3
AFR (BF)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.15x3)	13x3 (0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	14x4 (0.16x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.54	3.88	3.98	4.45	4.05	4.15
Heating	3.59	4.36	3.99	4.50	4.36	3.69

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

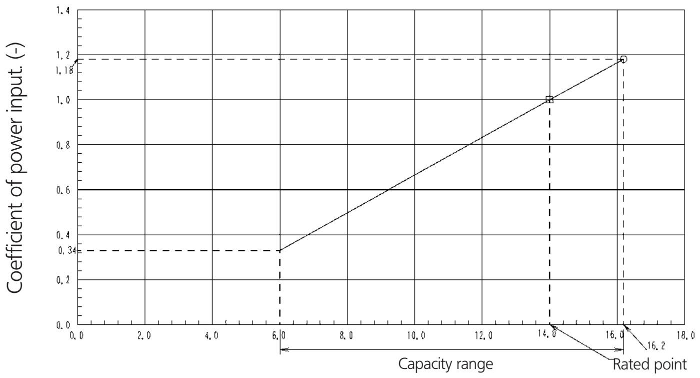
5 Capacity tables

5 - 3 Heating capacity tables

5

RZQ125B7W1B (Pair + Twin / triple / double twin)

Heating



Heating capacity Heating capacity **400V [50Hz]**

Indoor EDB (°C)	Outdoor temp. (°CWB)											
	–15		–10		–5		0		6		10	
	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	8.83	1.05	9.76	1.11	10.7	1.16	11.6	1.22	14.0	0.92	15.1	0.97
18.0	8.82	1.10	9.74	1.15	10.7	1.21	11.6	1.27	14.0	0.96	15.1	1.01
20.0	8.81	1.14	9.73	1.20	10.7	1.26	11.6	1.32	14.0	1.00	15.1	1.05
21.0	8.81	1.16	9.73	1.22	10.6	1.28	11.6	1.34	14.0	1.02	15.1	1.07
22.0	8.80	1.18	9.72	1.24	10.6	1.31	11.6	1.37	14.0	1.04	15.1	1.09
24.0	8.79	1.22	9.71	1.29	10.6	1.35	11.5	1.42	14.0	1.08	15.0	1.13

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NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark □ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables □ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
AFR (BF)	30 (0.13)	31 (0.07)	35 (0.14)	30 (0.13)	32 (0.07)	45 (0.25)

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
AFR (BF)	18x2 (0.1x2)	15x2 (0.11x2)	19x2 (0.11x2)	17x2 (0.2x2)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ35x3	FHQ50x3
AFR (BF)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.15x3)	13x3 (0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	14x4 (0.16x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ125D	FCQ125B	FBQ125	FHQ125	FUQ125	FDQ125
Cooling	3.54	3.88	3.98	4.45	4.05	4.15
Heating	3.59	4.36	3.99	4.50	4.36	3.69

Twin

Model	FCQ60Bx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.08	4.13	4.19	4.45
Heating	4.59	4.26	4.20	4.74

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

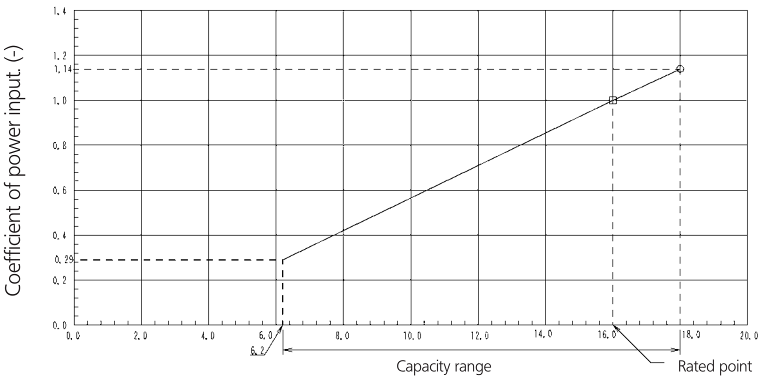
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQ140B7W1B (Pair + Twin / triple / double twin)

Heating



Heating capacity

Heating capacity

400V [50Hz]

Indoor	Outdoor temp. (°CWB)											
EDB	–15		–10		–5		0		6		10	
(°C)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16.0	9.82	1.05	9.80	1.11	11.9	1.16	12.9	1.22	16.0	0.92	17.3	0.97
18.0	9.80	1.10	10.8	1.15	11.8	1.21	12.9	1.27	16.0	0.96	17.2	1.01
20.0	9.79	1.14	10.8	1.20	11.8	1.26	12.9	1.32	16.0	1.00	17.2	1.05
21.0	9.79	1.16	10.8	1.22	11.8	1.28	12.8	1.34	16.0	1.02	17.2	1.07
22.0	9.78	1.18	10.8	1.24	11.8	1.31	12.8	1.37	16.0	1.04	17.2	1.09
24.0	9.77	1.22	10.8	1.29	11.8	1.35	12.8	1.42	16.0	1.08	17.2	1.13

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NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ☐ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FCQ140D
AFR (BF)	30 (0.07)

Twin

Model	FCQ71Bx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
AFR (BF)	18x2 (0.1x2)	19x2 (0.11x2)	17x2 (0.1x2)	19x2 (0.07x2)	19x2 (0.08x2)

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
AFR (BF)	15x3 (0.16x3)	12x3 (0.16x3)	14x3 (0.15x3)	13x3 (0.1x3)

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
AFR (BF)	14x4 (0.16x4)	10x4 (0.25x4)	11.5x4 (0.15x4)	13x4 (0.2x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FCQ140D
Cooling	4.65
Heating	4.52

Twin

Model	FCQ71Bx2	FBQ71x2	FHQ71x2	FUQ71x2	FAQ71x2
Cooling	4.81	4.95	4.99	4.99	4.92
Heating	5.52	5.06	5.69	5.05	5.22

Triple

Model	FCQ50Bx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.81	4.86	4.95	4.99
Heating	5.52	5.11	5.06	5.69

Double twin

Model	FCQ35Bx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.81	4.86	4.95	4.99
Heating	5.52	5.11	5.06	5.69

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

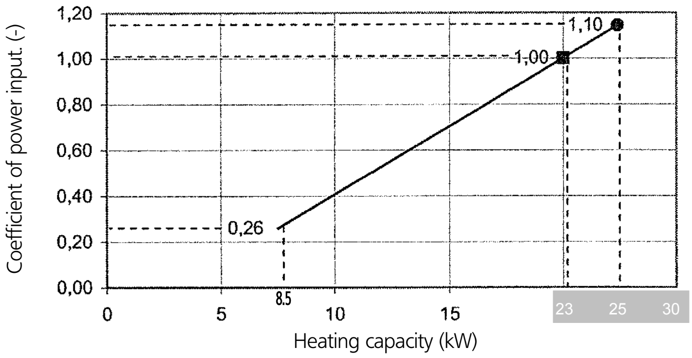
5 Capacity tables

5 - 3 Heating capacity tables

5

RZQ200B7W1B (Pair / Twin / Triple / Double twin)

Heating



Heating capacity **400V [50Hz]**

Indoor	Outdoor temperature (°CWB)											
	-15		-10		-5		0		6		10	
°CDB	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16	14.5	1.17	17.3	1.22	16.9	1.21	18.1	1.24	23.3	0.97	25.4	1.01
18	14.4	1.19	17.2	1.25	16.8	1.23	18.0	1.26	23.2	0.98	25.3	1.02
20	14.3	1.21	17.1	1.27	16.7	1.25	17.9	1.28	23.0	1.00	25.1	1.04
22	14.2	1.23	17.0	1.29	16.6	1.28	17.8	1.31	22.8	1.02	24.9	1.06
24	14.1	1.25	16.8	1.31	16.4	1.30	17.6	1.33	22.7	1.03	24.7	1.08

3TW26561-2A

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark with ● show the max. total capacity at standard conditions.
   On the figure the mark with ■ show rated capacity and rated coefficient of power input.
   However, only rated capacity & CPI are guaranteed (maximal values NOT).
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. Rated values are guaranteed. Other values are accurate within an error of 5%.
8. Heating capacity includes capacity drop due to defrost operation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FDQ200
AFR (BF)	69 0.31

Twin

Model	FCQ100x2	FBQ100x2	FHQ100x2	FUQ100x2	FAQ100x2
AFR (BF)	28x2 (0.16x2)	27x2 (0.2x2)	24x2 (0.14x2)	29x2 (0.07x2)	23x2 (0.1x2)

Triple

Model	FCQ60x3	FCQ71x3	FFQ60x3	FBQ60x3	FBQ71x3	FHQ60x3	FHQ71x3	FUQ71x3	FAQ71x3
AFR (BF)	18x3 (0.1x3)	18x3 (0.1x3)	15x3 (0.11x3)	19x3 (0.11x3)	19x3 (0.11x3)	17x3 (0.2x3)	17x3 (0.1x3)	19x3 (0.07x3)	19x3 (0.08x3)

Double twin

Model	FCQ50x4	FFQ50x4	FBQ50x4	FHQ50x4
AFR (BF)	15x4 (0.16x4)	12x4 (0.16x4)	14x4 (0.15x4)	13x4 (0.1x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FDQ200
Cooling	6.43
Heating	7.54

Twin

Model	FCQ100x2	FBQ100x2	FHQ100x2	FUQ100x2	FAQ100x2
Cooling	5.87	6.36	7.00	6.93	6.18
Heating	7.16	6.85	8.21	7.48	7.74

Triple

Model	FCQ60x3	FCQ71x3	FFQ60x3	FBQ60x3	FBQ71x3	FHQ60x3	FHQ71x3	FUQ71x3	FAQ71x3
Cooling	6.18	6.18	6.20	6.69	6.69	7.37	7.37	7.30	6.50
Heating	7.54	7.54	7.32	7.21	7.21	8.65	8.65	7.88	8.14

Double twin

Model	FCQ50x4	FFQ50x4	FBQ50x4	FHQ50x4
Cooling	6.18	6.20	6.69	7.37
Heating	7.54	7.32	7.21	8.65

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

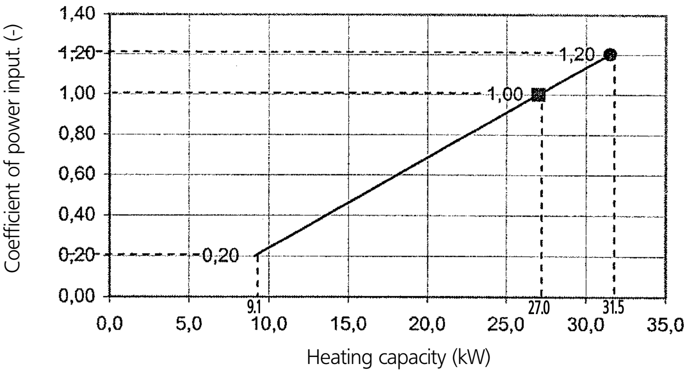
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQ250B7W1B (Pair / Twin / Double twin)

Heating



Heating capacity **400V [50Hz]**

Indoor	Outdoor temperature (°CWB)											
	-15		-10		-5		0		6		10	
°CDB	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)	TC (kW)	CPI (-)
16	16.5	1.04	19.4	1.09	18.7	1.09	19.9	1.12	27.5	0.92	29.9	0.98
18	16.4	1.08	19.2	1.14	18.5	1.13	19.7	1.17	27.2	0.96	29.6	1.02
20	16.2	1.12	19.0	1.18	18.4	1.18	19.5	1.22	27.0	1.00	29.3	1.06
22	16.1	1.16	18.8	1.23	18.2	1.22	19.3	1.26	26.8	1.04	29.1	1.10
24	15.9	1.20	18.7	1.27	18.0	1.26	19.2	1.31	26.5	1.08	28.8	1.14

3TW26571-2A

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark with ● show the max. total capacity at standard conditions.
   On the figure the mark with ■ show rated capacity and rated coefficient of power input.
   However, only rated capacity & CPI are guaranteed (maximal values NOT).
3. On the tables ☐ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 7.5 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. Rated values are guaranteed. Other values are accurate within an error of 5%.
8. Heating capacity includes capacity drop due to defrost operation.
9. Air flow rate and BF are tabulated below.

Pair

Model	FDQ250
AFR (BF)	89 (0.34)

Twin

Model	FCQ125x2	FBQ125x2	FHQ125x2	FUQ125x2	FDQ125x2
AFR (BF)	31x2 (0.07x2)	35x2 (0.14x2)	30x2 (0.13x2)	32x2 (0.07x2)	45x2 (0.25x2)

Double twin

Model	FCQ60x4	FFQ60x4	FBQ60x4	FHQ60x4
AFR (BF)	18x4 (0.1x4)	15x4 (0.11x4)	19x4 (0.11x4)	17x4 (0.2x4)

10. Rated power input of each model is tabulated below.

Pair

Model	FDQ250
Cooling	8.30
Heating	8.85

Twin

Model	FCQ125x2	FBQ125x2	FHQ125x2	FUQ125x2	FDQ125x2
Cooling	8.62	8.84	9.89	9.00	9.22
Heating	9.34	8.55	9.64	9.34	7.91

Double twin

Model	FCQ60x4	FFQ60x4	FBQ60x4	FHQ60x4
Cooling	9.08	9.18	9.31	10.41
Heating	9.83	9.13	9.00	10.15

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

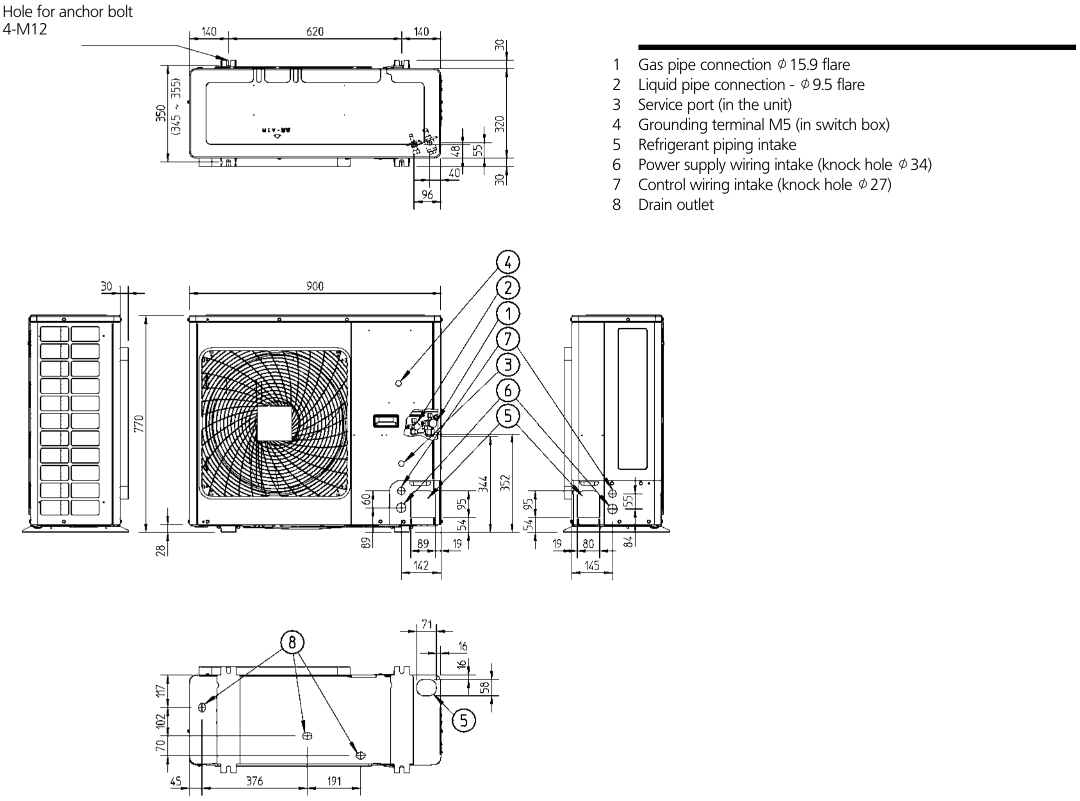
Caution:
TC and SHC are shown by kW

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

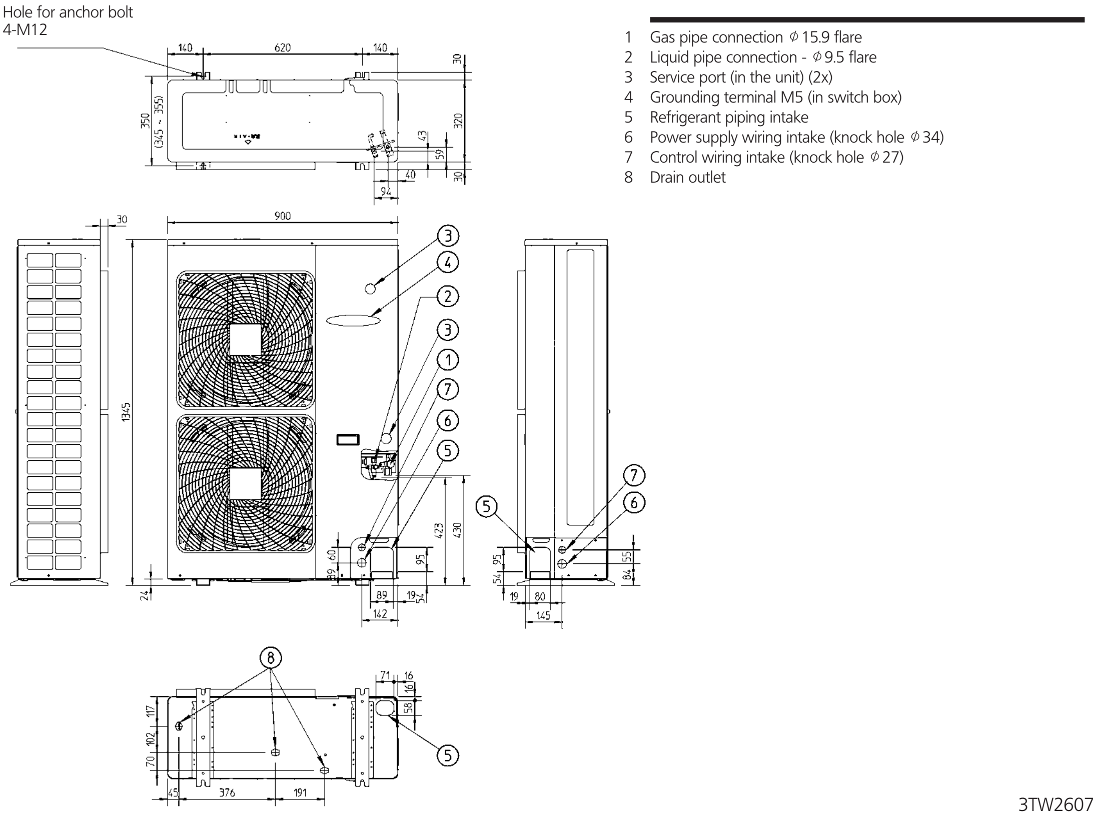
6

RZQ71B7V3B **unit (mm)**



3TW25144-1A

RZQ100-125-140B7V3B **unit (mm)**

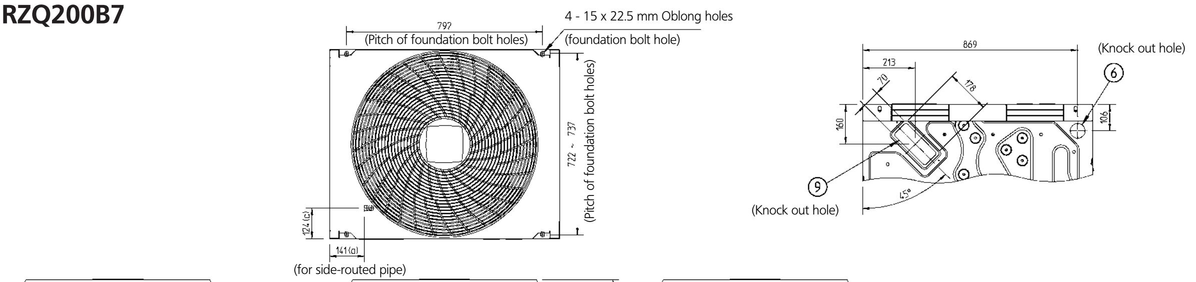


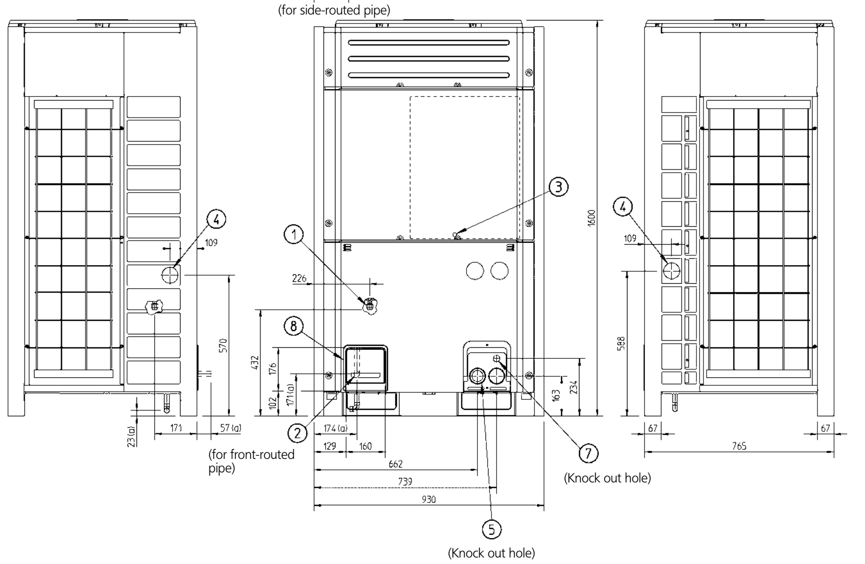
3TW26071-1

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

RZQ200B7





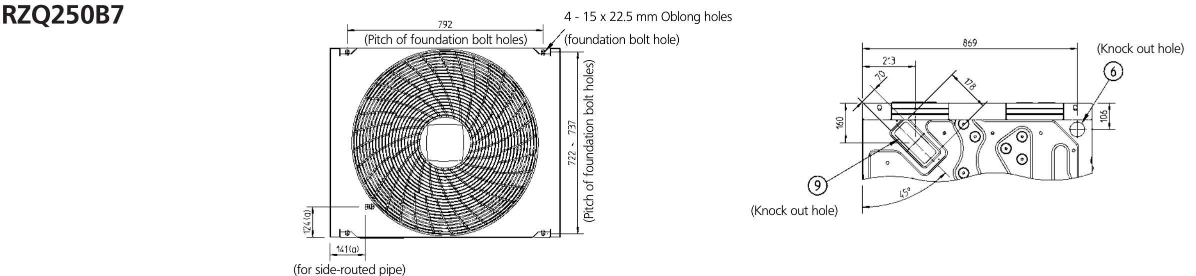
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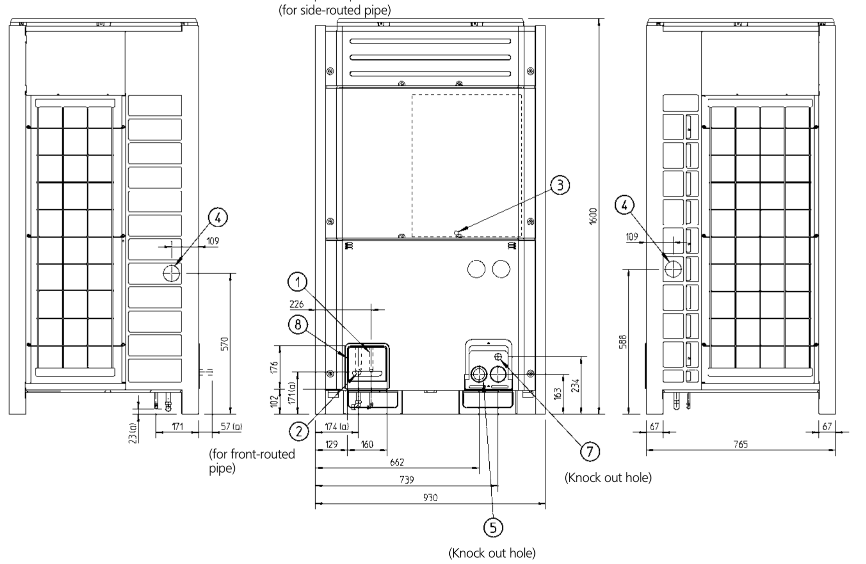
1. The dimensions marked with (a) are those with the installation of the provided pipes.
2. Refer to the installation instructions when the pipes are routed through the bottom of the unit.

1. Liquid pipe connection port 9.52 flare connection
2. Gas pipe connection port 22.2 braze connection
3. Grounding terminal inside of switch box
4. Power cord routing hole (side) - Φ 65
5. Power cord routing hole (front) - Φ 45
6. Power cord routing hole (bottom) - Φ 60
7. Power cord routing hole (front) - Φ 27
8. Pipe routing hole (front)
9. Pipe routing hole (bottom) - see note 2

3TW26564-2

RZQ250B7





Notes:

1. The dimensions marked with (a) are those with the installation of the provided pipes.
2. Refer to the installation instructions when the pipes are routed through the bottom of the unit.

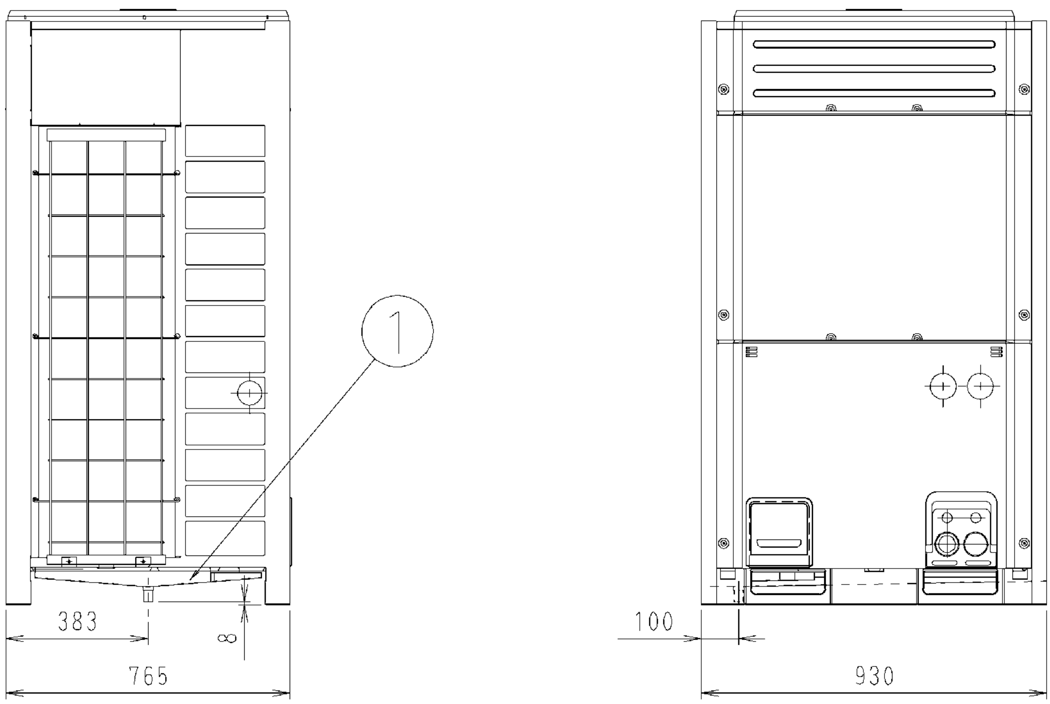
1. Liquid pipe connection port 12.7 flare connection
2. Gas pipe connection port 22.2 braze connection
3. Grounding terminal inside of switch box
4. Power cord routing hole (side) - Φ 65
5. Power cord routing hole (front) - Φ 45
6. Power cord routing hole (bottom) - Φ 60
7. Power cord routing hole (front) - Φ 27
8. Pipe routing hole (front)
9. Pipe routing hole (bottom) - see note 2

3TW26574-2

6 Dimensional drawing & centre of gravity

6 - 2 Dimensional drawings and accessories

RZQ200-250B7

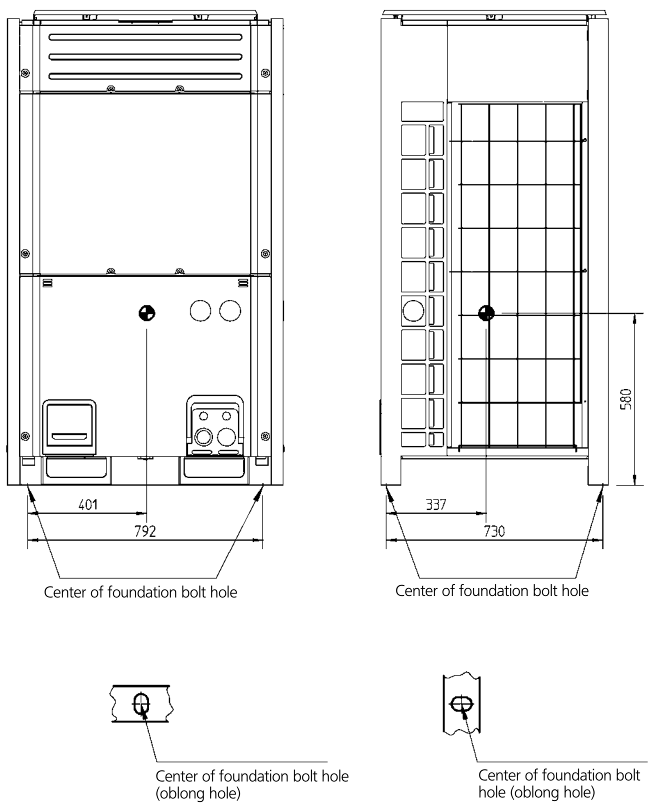


3D041017C

6 Dimensional drawing & centre of gravity

6 - 3 Centre of gravity

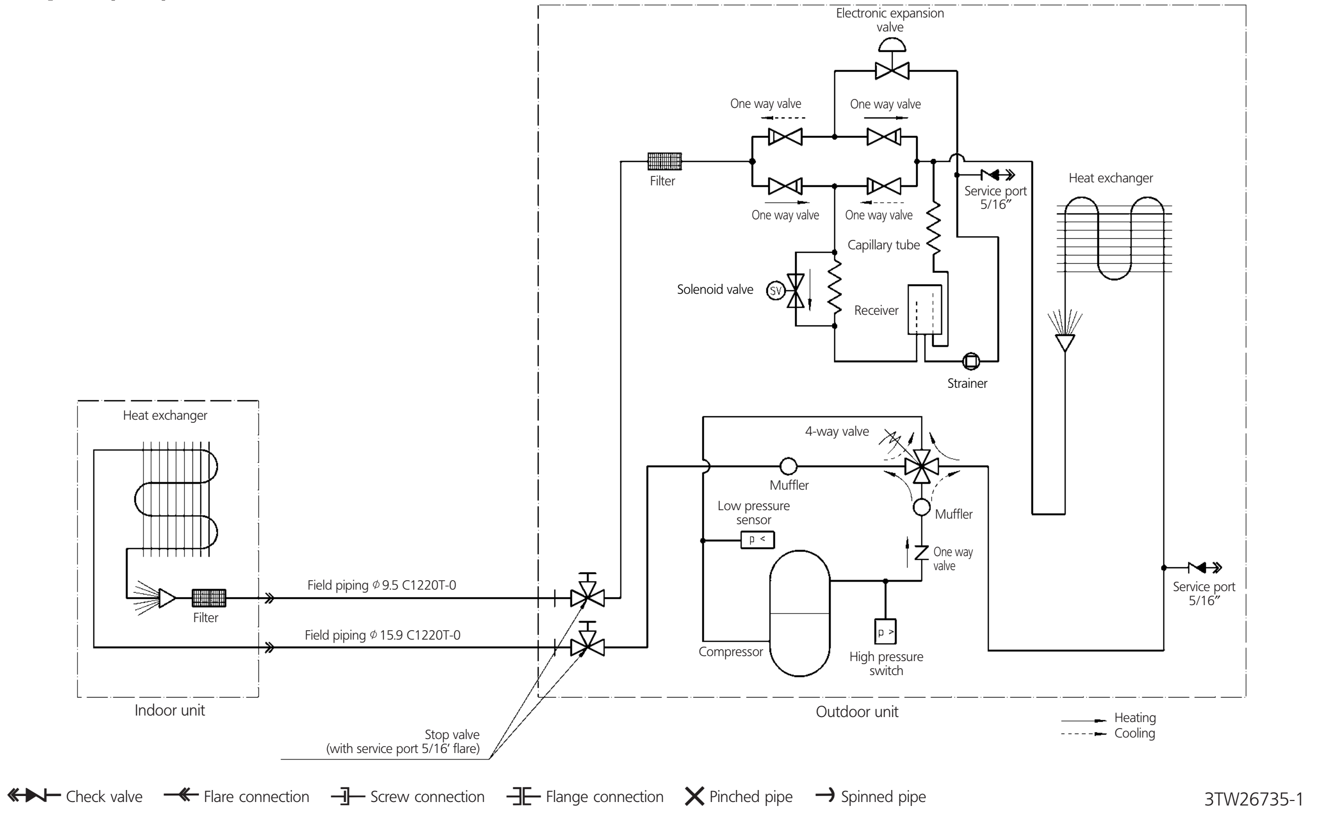
RZQ200-250B7



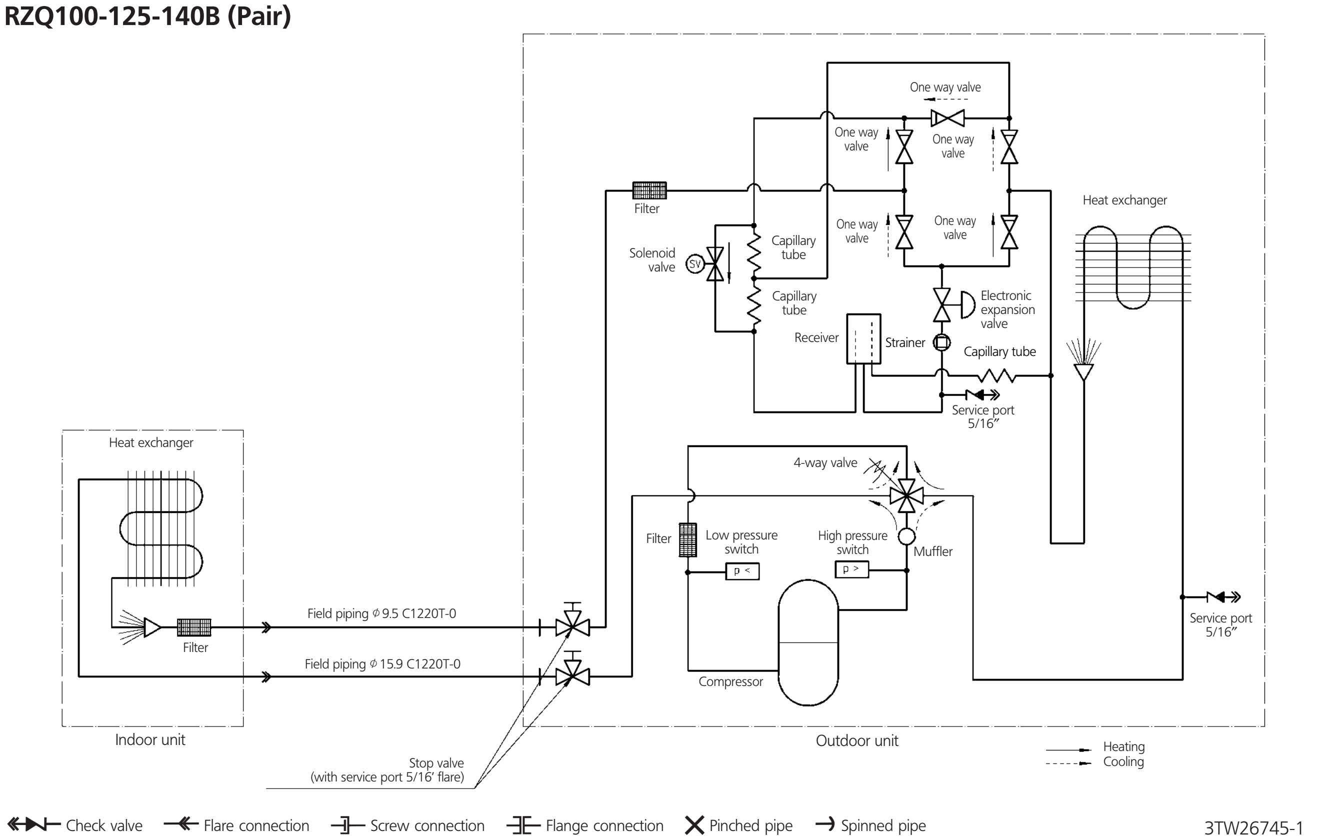
4TW26569-1

7 Piping diagram

RZQ71B (Pair)



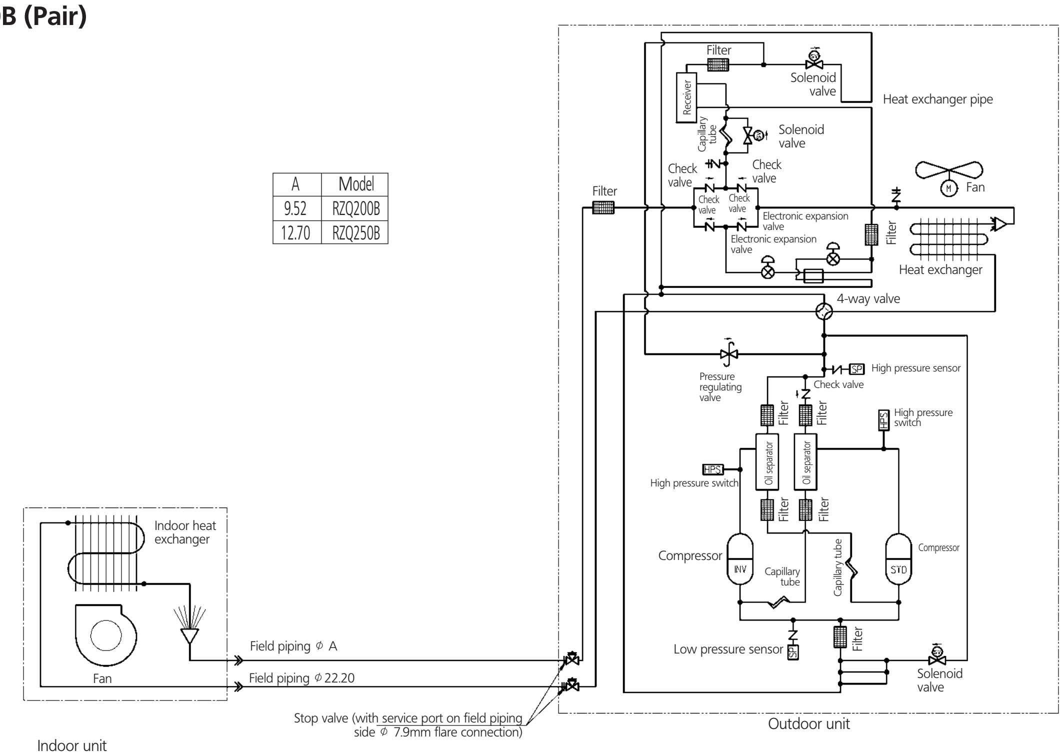
RZQ100-125-140B (Pair)



7 Piping diagram

RZQ200-250B (Pair)

A	Model
9.52	RZQ200B
12.70	RZQ250B

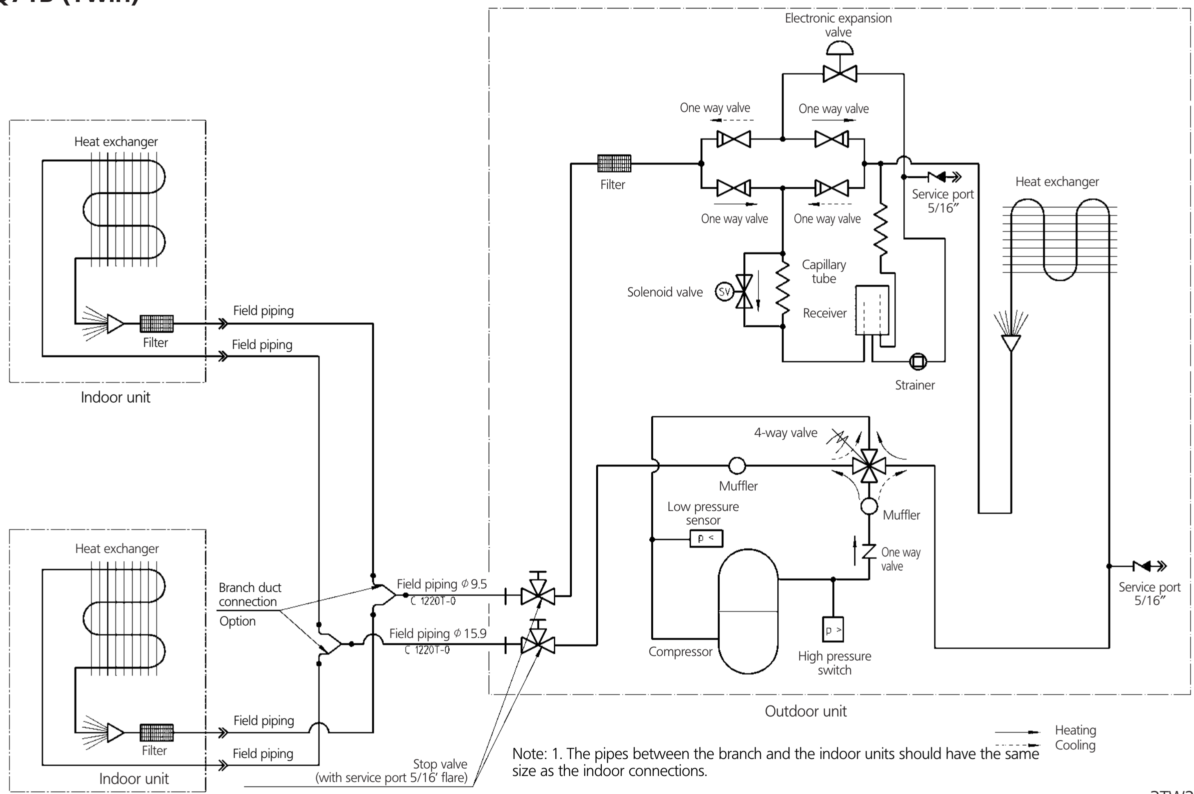


Note: The pipes between the branch and the indoor units should have the same size as the indoor connections.

3TW26565-1

Check valve · Flare connection · Screw connection · Flange connection · Pinched pipe · Spinned pipe

RZQ71B (Twin)



Note: 1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

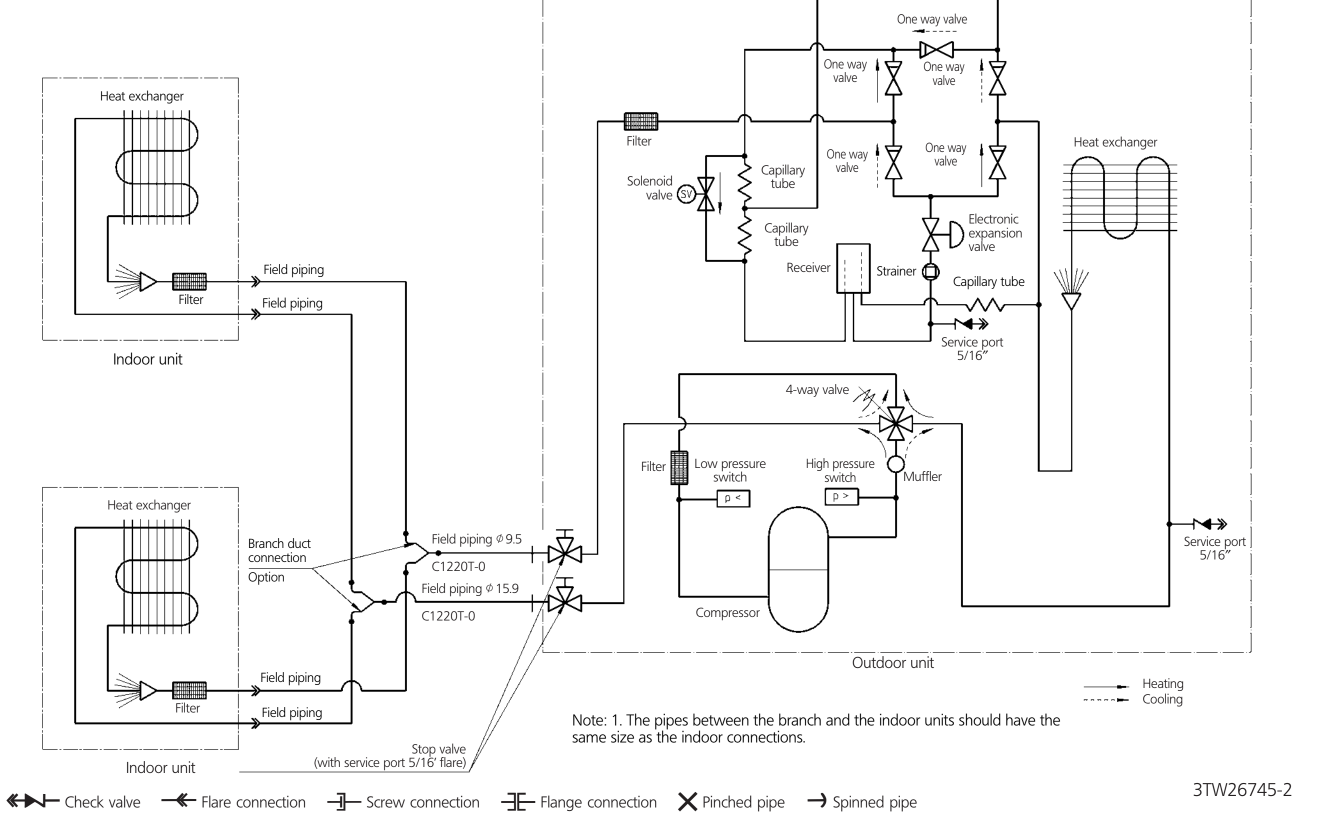
3TW26735-2

Check valve · Flare connection · Screw connection · Flange connection · Pinched pipe · Spinned pipe

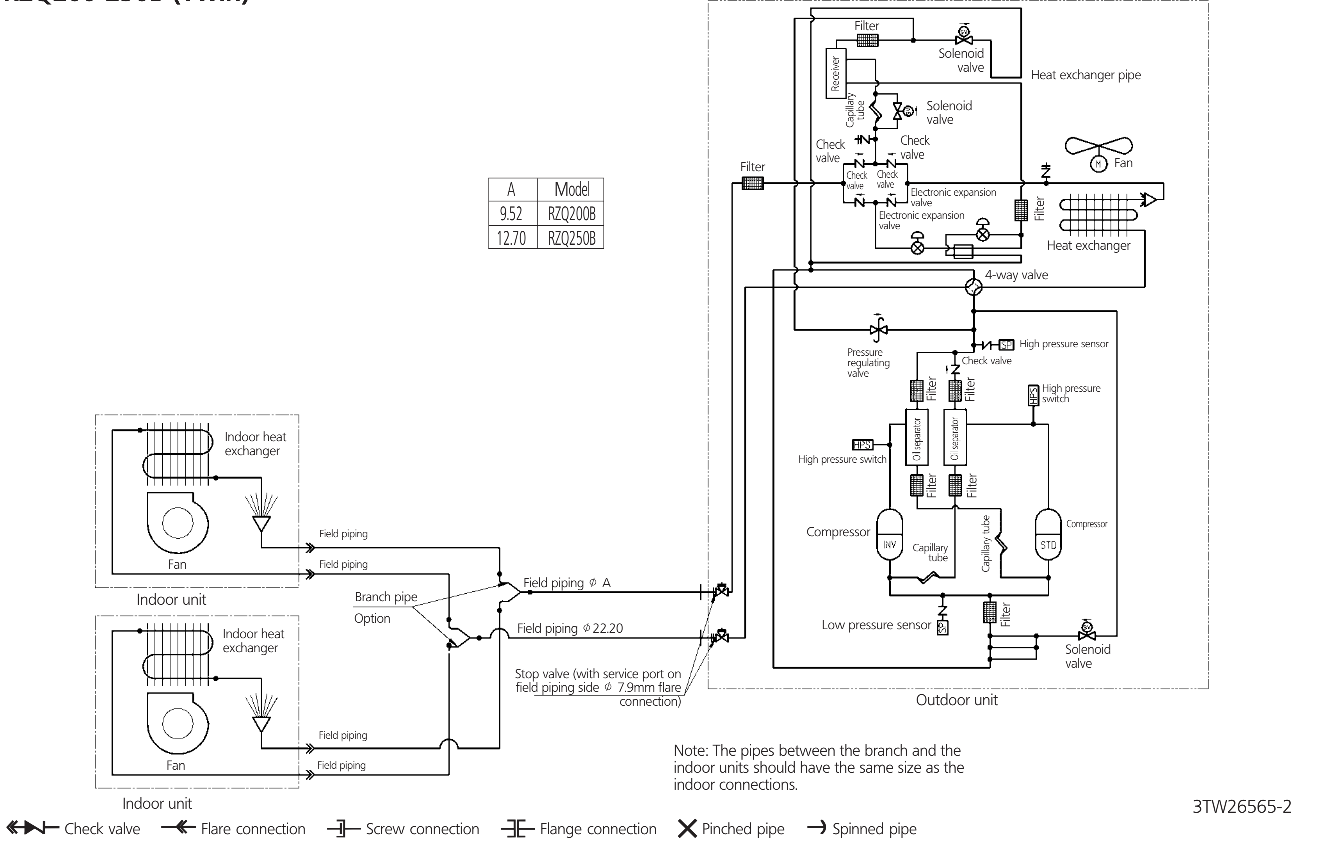
7 Piping diagram

7

RZQ100-125-140B (Twin)



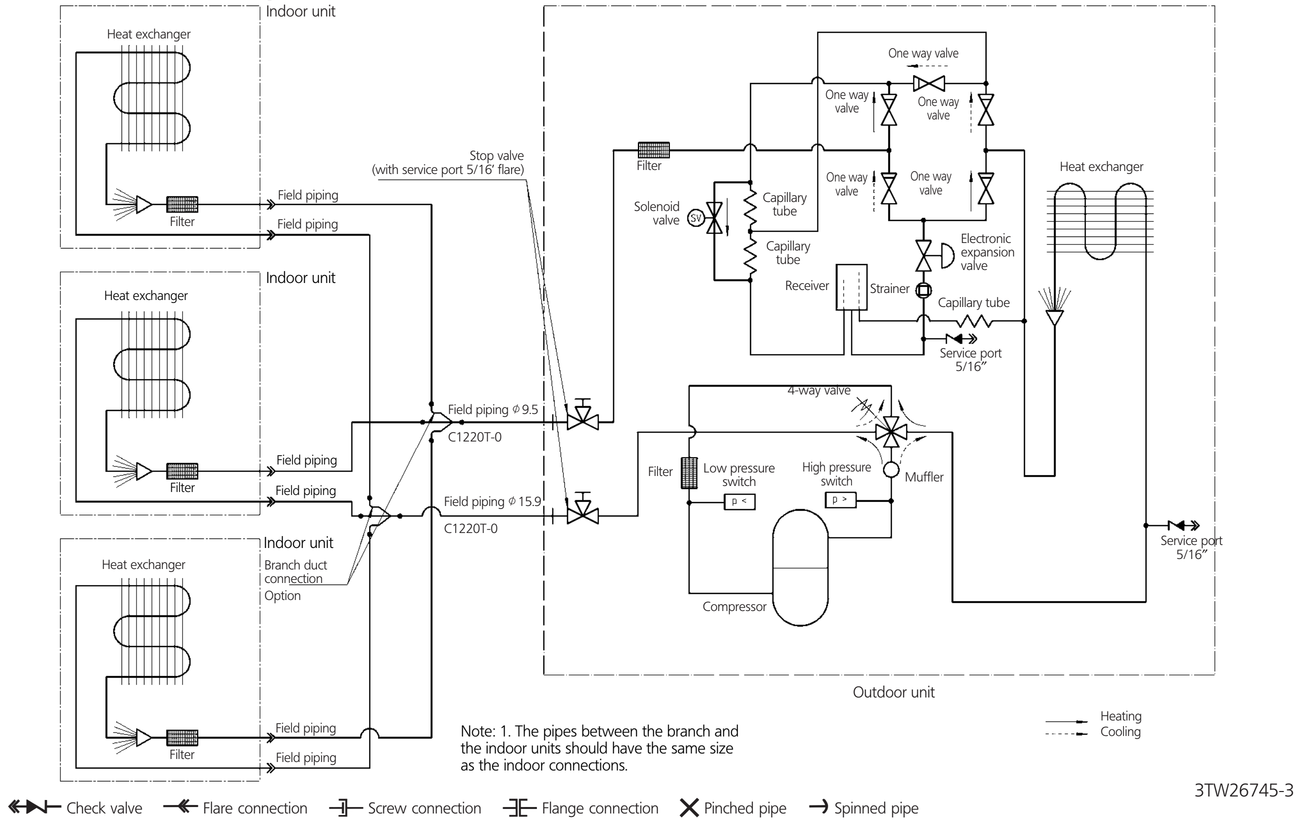
RZQ200-250B (Twin)



A	Model
9.52	RZQ200B
12.70	RZQ250B

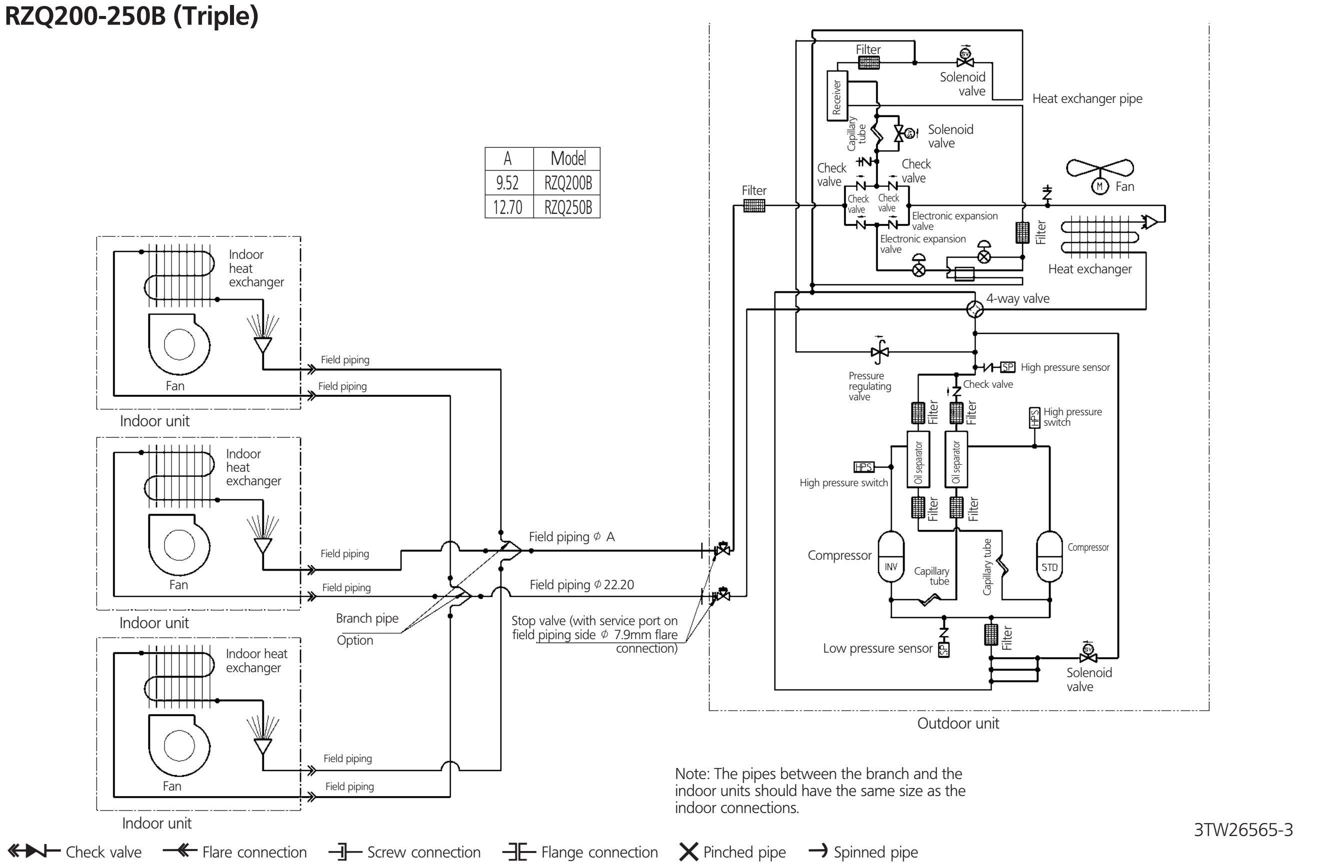
7 Piping diagram

RZQ100-125-140B (Triple)



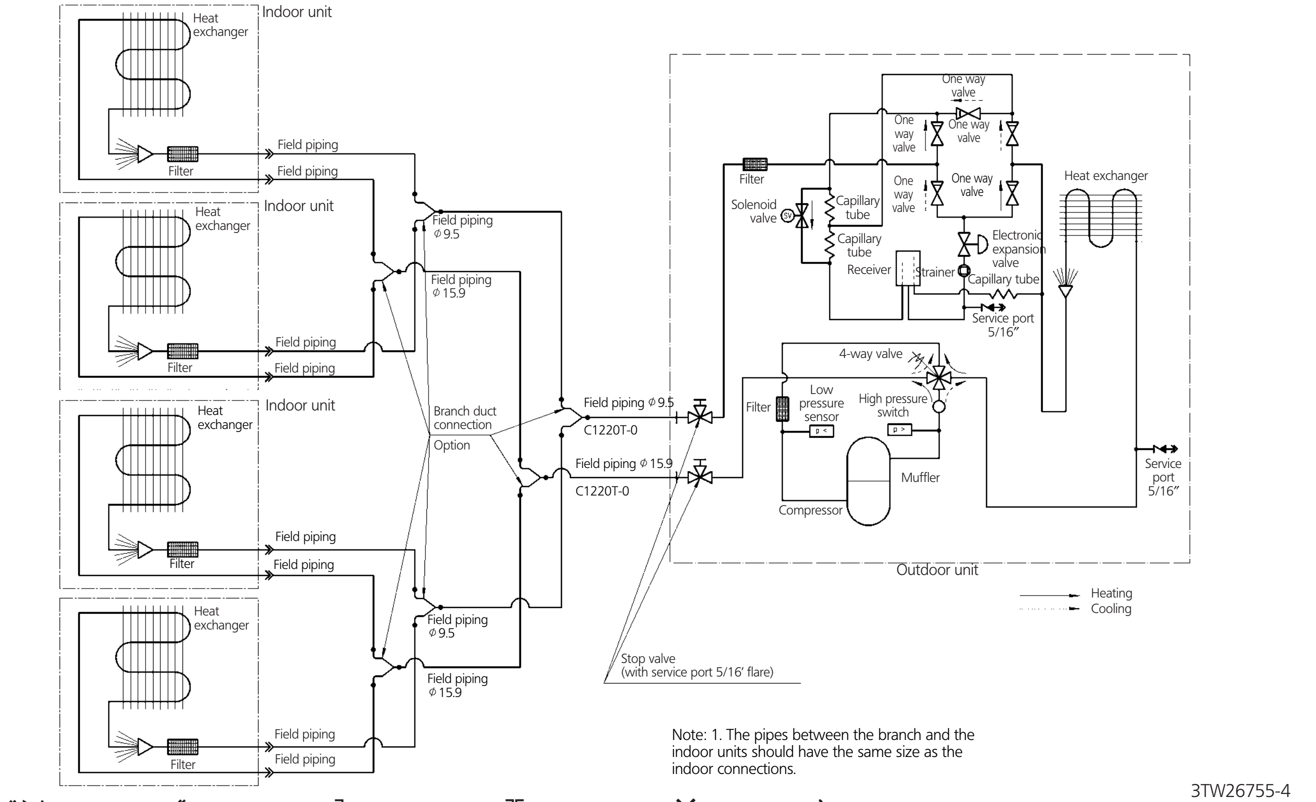
RZQ200-250B (Triple)

A	Model
9.52	RZQ200B
12.70	RZQ250B



7 Piping diagram

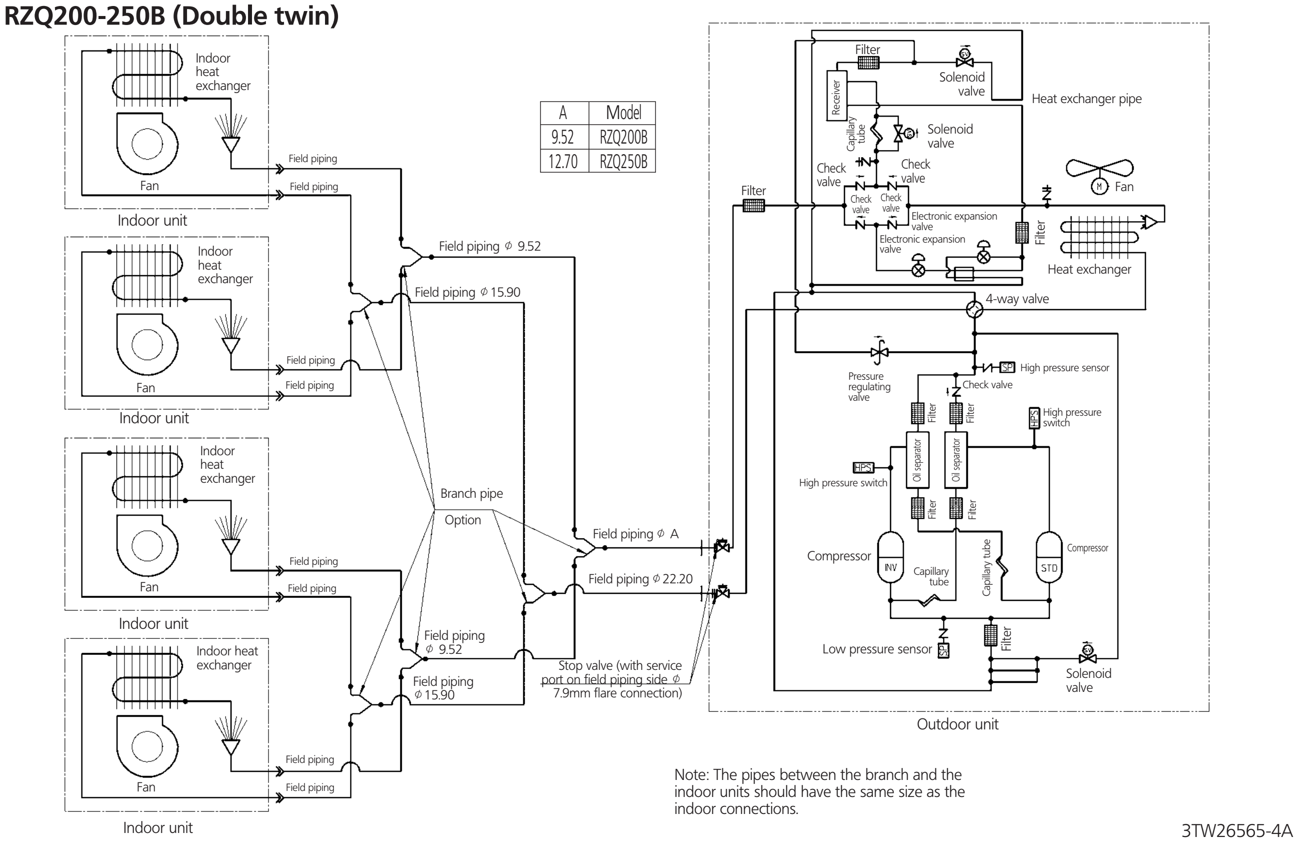
RZQ100-125-140B (Double twin)



3TW26755-4

Check valve — Flare connection — Screw connection — Flange connection — Pinched pipe — Spinned pipe

RZQ200-250B (Double twin)



A	Model
9.52	RZQ200B
12.70	RZQ250B

3TW26565-4A

Check valve — Flare connection — Screw connection — Flange connection — Pinched pipe — Spinned pipe

8 Wiring diagram

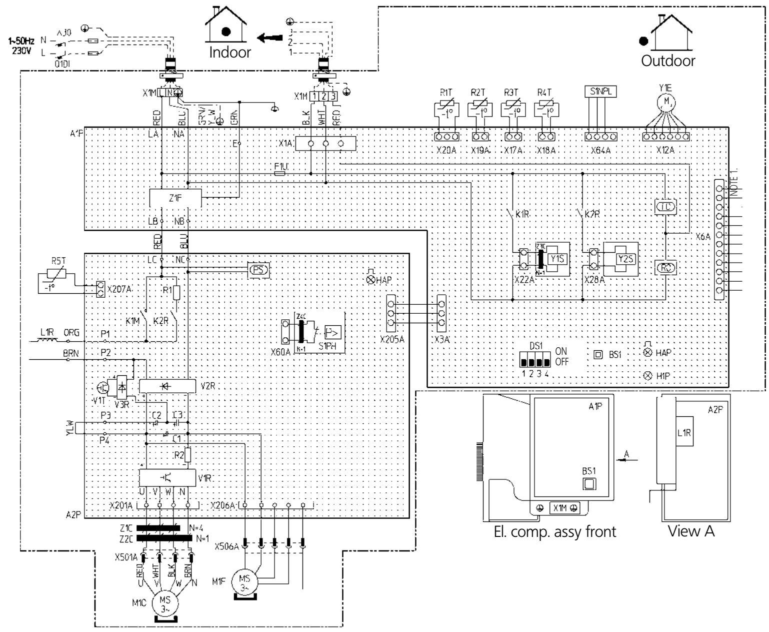
RZQ71B8V3B

L : Live
N : Neutral
: Field wiring
: Protective earth (screw)
: Wire clamp
: Terminal
: Connector
: Relay connector

Colours
BLK: Black / ORG: Orange / BLU: Blue /
WHT: White / RED: Red / YLW:Yellow /
BRN: Brown / GRN: Green

NOTES:

1. Refer to the optional manual, for connection wiring to X6A.
2. Confirm the method of setting the selector switches (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.



A1P	Printed circuit board	K1M(A2P)	Magnetic contactor	R2T	Thermistor (coil)	V2R-V3R	Diode module
A2P	Printed circuit board (INV)	K1R(A1P)	Magnetic relay (Y1S)	R3T	Thermistor (discharge pipe)	V1T	IGBT
BS1	Push button switch (forced defrost / pump down)	K2R(A1P)	Magnetic relay (Y2S)	R4T	Thermistor (suction pipe)	X6A	Connector (Option)
C1-C2-C3	Capacitor	K2R(A2P)	Magnetic relay	R5T	Thermistor (power module)	X1M	Terminal strip
DS1	Dip switch	L1R	Reactor	S1PH	Pressure switch (high)	Y1E	Expansion valve
F1U	Fuse (T6, 3A/250V)	M1C	Motor compressor	S1NPL	Pressure sensor (low)	Y1S	4-way valve
HAP (A1P)	Light emitting diode (service monitor green)	M1F	Motor fan	RC	Signal receiver circuit	Y2S	Solenoid valve
HAP (A2P)	Light emitting diode (service monitor green)	PS	Power circuit	TC	Signal transmission circuit	Z1C, Z2C Z3C, Z4C	Noise filter
H1P (A1P)	Light emitting diode (service monitor red)	Q1DI	Earth leakage breaker (30mA)	V1R	Power module	Z1F	Noise filter (with surge absorber)
		R1-R2	Resistor				
		R1T	Thermistor (air)				

2TW26736-1A

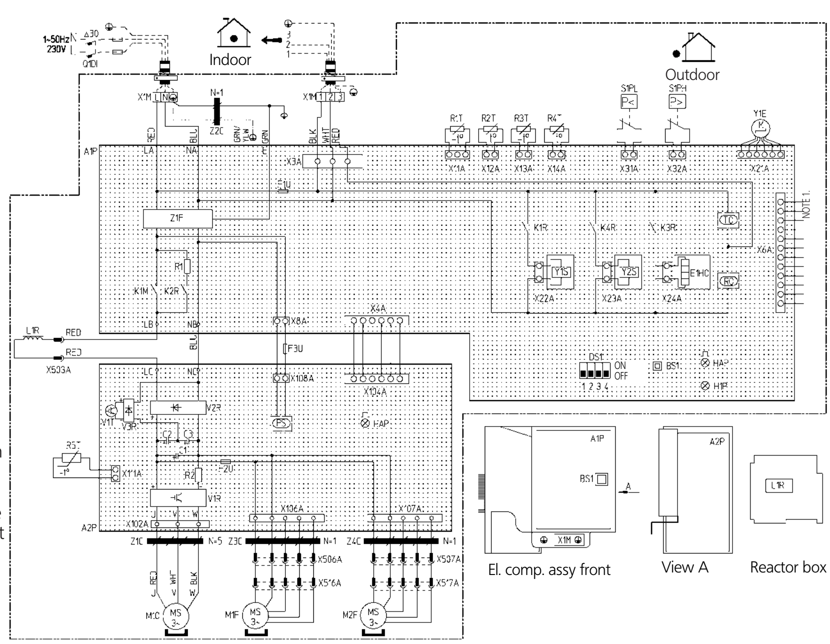
RZQ100-125B8V3B

L : Live
N : Neutral
: Field wiring
: Protective earth (screw)
: Wire clamp
: Terminal
: Connector
: Relay connector

Colours
BLK: Black / ORG: Orange / BLU: Blue /
WHT: White / RED: Red / YLW:Yellow /
BRN: Brown / GRN: Green

NOTES:

1. Refer to the optional manual, for connection wiring to X6A.
2. Confirm the method of setting the selector switches (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.



A1P	Printed circuit board	K1M(A2P)	Magnetic contactor	R2T	Thermistor (coil)	V2R-V3R	Diode module
A2P	Printed circuit board (INV)	K1R(A1P)	Magnetic relay (Y1S)	R3T	Thermistor (discharge pipe)	V1T	IGBT
BS1	Push button switch (forced defrost / pump down)	K2R(A1P)	Magnetic relay	R4T	Thermistor (suction pipe)	X6A	Connector (Option)
C1-C2-C3	Capacitor	K3R(A1P)	Magnetic relay (E1HC)	R5T	Thermistor (power module)	X1M	Terminal strip
DS1	Dip switch	K4R (A1P)	Magnetic relay (Y2S)	S1PH	Pressure switch (high)	Y1E	Expansion valve
E1HC	Crankcase heater	L1R	Reactor	S1NPL	Pressure sensor (low)	Y1S	4-way valve
F1U	Fuse (T 6,3A/250V)	M1C	Motor compressor	TC	Signal transmission circuit	Y2S	Solenoid valve
F2U	Fuse	M1F	Motor fan	V1R	Power module	Z1C, Z2C Z3C, Z4C	Noise filter
F3U	Fuse (B 5A/250V)	PS	Power circuit				
HAP (A1P)	Light emitting diode (service monitor green)	Q1DI	Earth leakage breaker (30mA)			Z1F	Noise filter
HAP (A2P)	Light emitting diode (service monitor green)	R1-R2	Resistor			Z1F	Noise filter (with surge absorber)
H1P (A1P)	Light emitting diode (service monitor red)	R1T	Thermistor (air)				

2TW26746-1

8 Wiring diagram

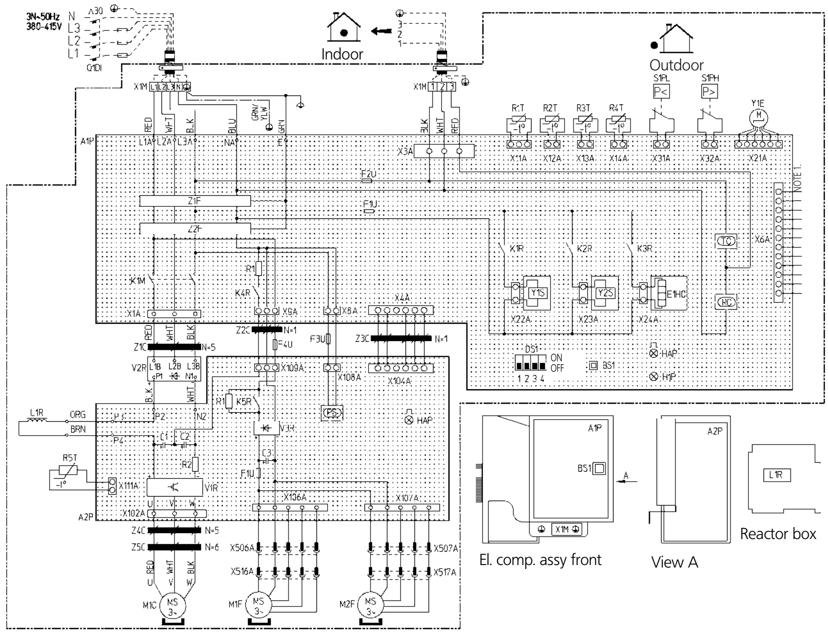
RZQ100-125-140B7W1B

L : Live
N : Neutral
: Field wiring
: Protective earth (screw)
: Wire clamp
: Terminal
: Connector
: Relay connector

Colours
BLK: Black / ORG: Orange / BLU: Blue /
WHT: White / RED: Red / YLW:Yellow /
BRN: Brown / GRN: Green

NOTES:

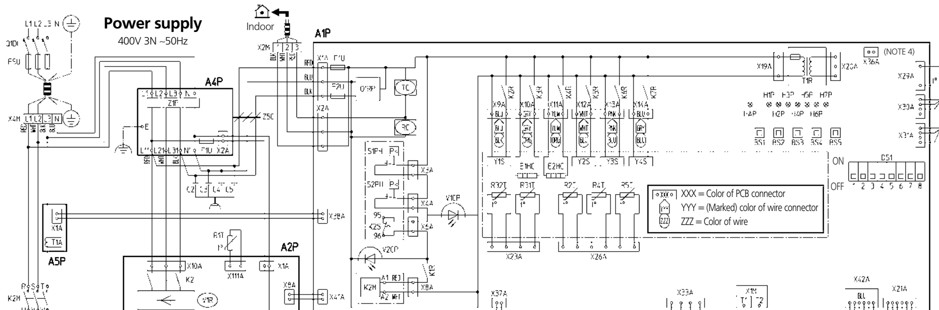
1. Refer to the optional manual, for connection wiring to X6A.
2. Confirm the method of setting the selector switches (DS1) by service manual. When the unit is shipped by factory all switches are set to be off.

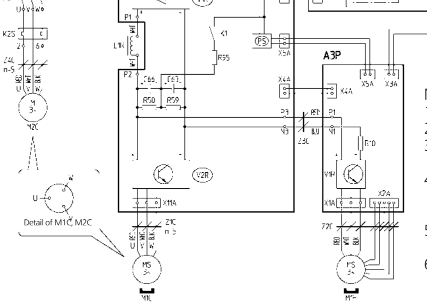


A1P	Printed circuit board
A2P	Printed circuit board (INV)
BS1	Push button switch (forced defrost / pump down)
C1-C2-C3	Capacitor
DS1	Dip switch
F1U (A2P)	Fuse (T 6,3A/250V)
F2U	Fuse (T 6,3A/250V)
F3U	Fuse (B 10A/250V)
F4U	Fuse (B 10A/250V)
HAP (A1P)	Light emitting diode (service monitor green)
HAP (A2P)	Light emitting diode (service monitor green)
H1P (A1P)	Light emitting diode (service monitor red)
K1M(A2P)	Magnetic contactor
K1R(A1P)	Magnetic relay (Y1S)
K2R(A1P)	Magnetic relay (Y2S)
K3R(A1P)	Magnetic relay (E1HC)
K4R, K5R	Magnetic relay
L1R	Reactor
M1C	Motor compressor
M1F	Motor fan
PS	Power circuit
Q1DI	Earth leakage breaker (30mA)
R1-R2	Resistor
R1T	Thermistor (air)
R2T	Thermistor (coil)
R3T	Thermistor (discharge pipe)
R4T	Thermistor (suction pipe)
R5T	Thermistor (power module)
S1PH	Pressure switch (high)
S1NPL	Pressure sensor (low)
RC	Signal receiver circuit
TC	Signal transmission circuit
V1R	Power module
V2R-V3R	Diode module
V1T	IGBT
X6A	Connector (Option)
X1M	Terminal strip
Y1E	Expansion valve
Y1S	4-way valve
Y2S	Solenoid valve
Z1C, Z2C Z3C, Z4C	Noise filter
Z1F	Noise filter
Z1F	Noise filter (with surge absorber)

2TW26766-1

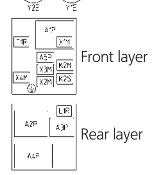
RZQ200-250B7





Notes:

1. This wiring diagram only applies to the outdoor unit
2. : Field wiring
3. : Terminal strip : Connector
   : Terminal : Protective earth (screw)
4. For use of the option adaptor, how to use BS1 ~ BS5 and DS1 switch and connection to X1M(A1P) or X3M refer to the installation manual.
5. Do not operate the unit by short-circuiting protection device S1PH, S2PH
6. BLK: Black / WHT: White / RED: Red / BLU: Blue
   GRY: Grey / BRN: brown / GRN: Green / YLW: Yellow / PNK: Pink



Position in switch box

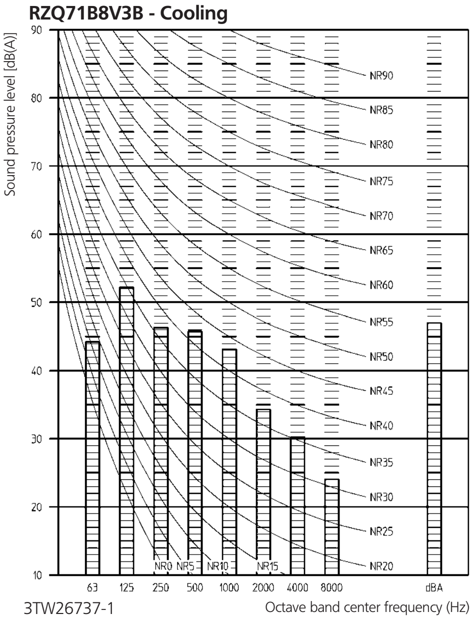
A1P-A5P	Printed circuit board
A1P	Main
A2P	Inverter
A3P	Fan motor
A4P	Noise filter
A5P	current sensor
BS1-BS5	Push button switch Mode, set, return, test, forced defrost
C2-C5,C63,C65	Capacitor
DS1	Dip switch
E1HC, E2HC	Crankcase heater
F1U	Fuse (250V, 5A Ⓑ) (A4P)
F1U, F2U	Fuse (250V, 10AⒷ) (A1P)
F5U	Field fuse
H1P-H7P	Pilot lamp (Pilotlamp service monitor - orange) Prepare test--------Flickering [H2P] Malfunction detection---Light up
HAP	Pilot lamp (Pilotlamp service monitor - green)
K1	Magnetic relay
K2S	Magnetic relay (M2C)
K2	Magnetic contactor (M1C)
K2M	Magnetic contactor (M2C)
K1R-K7R	Magnetic relay
K1R	K2M (A1P)
K2R	Y1S
K3R	E1HC (A1P)
K4R	E2HC (A1P)
K5R	Y2S
K6R	Y3S
K7R	Y4S
L1R	Reactor
M1C, M2C	Motor compressor
M1F	Motor fan
PS	Power circuit
Q1DI	Earth leakage breaker (max. 30mA)
Q1RP	Phase reversal detect circuit
R10	Resistor (current sensor)
R50, R59	Resistor
R95	Resistor (current limiting)
R1T, R32T	Thermistor
R1T	Air (A1P)
R32T	M2C Discharge
R1T	Fin type (A2P)
R4T	Coil-deicer
R2T	Suction
R5T	Coil-outlet
R31T	M1C Discharge
S1NPH	Pressure sensor (high)
S1NPL	Pressure sensor (low)
S1PH, S2PH	Pressure switch (high)
T1A	current sensor
T1R	Transformer(230V/20V)
V1CP, V2CP	Safety devices input
V1R, V2R	Power module (A2P)
V1R	Power module (A3P)
X1M	Terminal strip (Control) (A1P)
X2M	Terminal (Power supply indoor)
X3M	Terminal (Control)
X4M	Terminal strip (Power supply)
Y1E	Electronic expansion valve (Main)
Y2E	Electronic expansion valve (Subcool)
Y1S-Y4S	Solenoid valve
Y1S	4-way valve
Y2S	Hot gas
Y3S	Receiver gas purge
Y4S	Liquid pipe
Z1C, Z5C	Noise filter (ferrite core)
Z1F	Noise filter (with surge absorber)
Option connectors	
X36A	Connector adaptor power supply

2TW26566-1

9 Sound data

9 - 1 Sound pressure spectrum

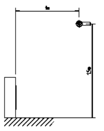
RZQ71B8V3B - Cooling



3TW26737-1

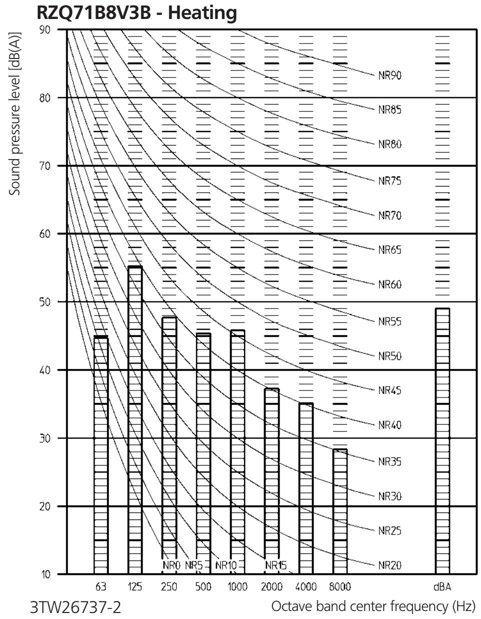
NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20μPa



Measuring location (discharge side)

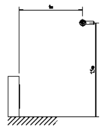
RZQ71B8V3B - Heating



3TW26737-2

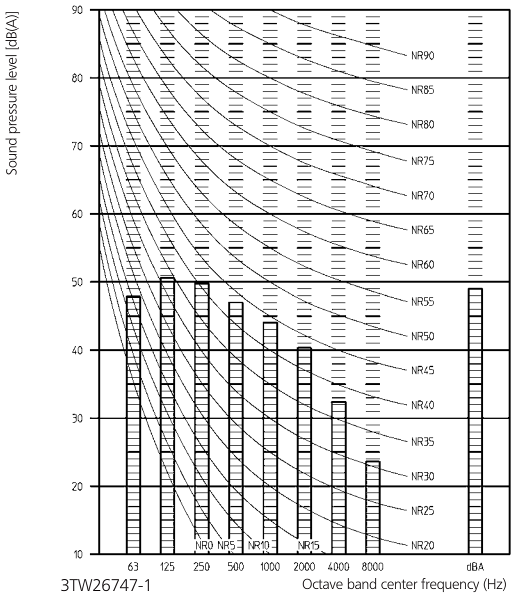
NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20μPa



Measuring location (discharge side)

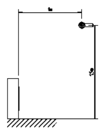
RZQ100B8V3B - Cooling
RZQ100B7W1B



3TW26747-1

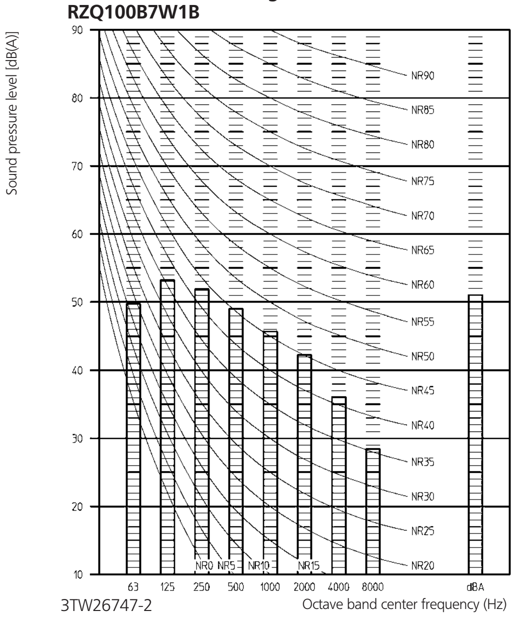
NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20μPa



Measuring location (discharge side)

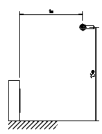
RZQ100B8V3B - Heating
RZQ100B7W1B



3TW26747-2

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20μPa



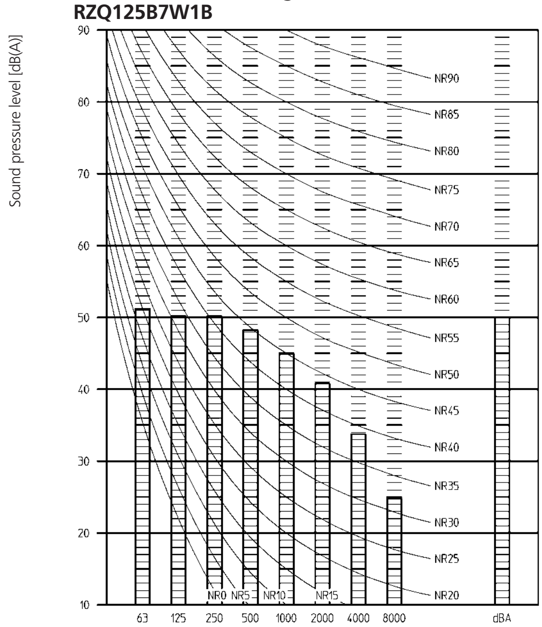
Measuring location (discharge side)

9 Sound data

9 - 1 Sound pressure spectrum

9

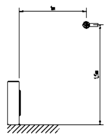
RZQ125B8V3B - Cooling
RZQ125B7W1B



3TW26757-1

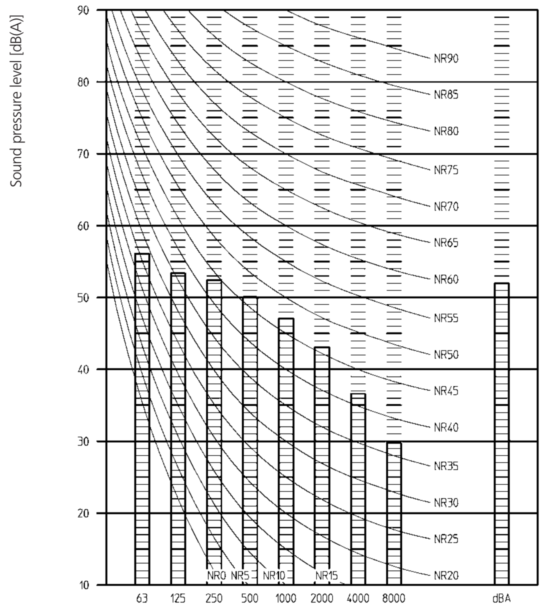
NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa



Measuring location (discharge side)

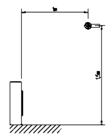
RZQ125B8V3B - Heating
RZQ125B7W1B



3TW26757-2

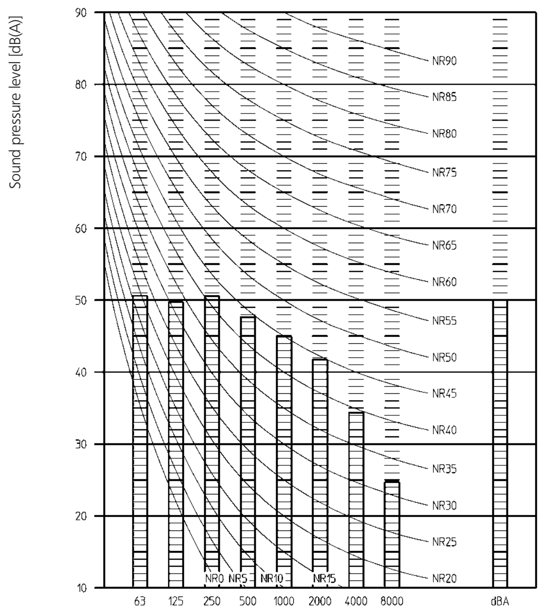
NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa



Measuring location (discharge side)

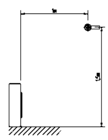
RZQ140B8V3B - Cooling



3TW26787-1

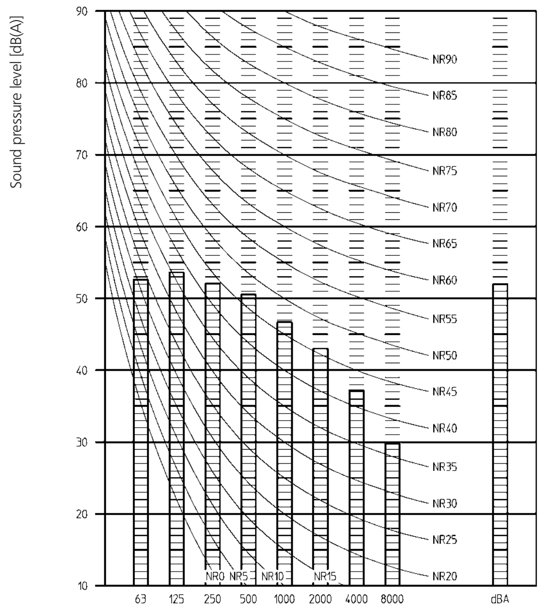
NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa



Measuring location (discharge side)

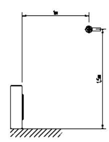
RZQ140B8V3B - Heating



3TW26787-2

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

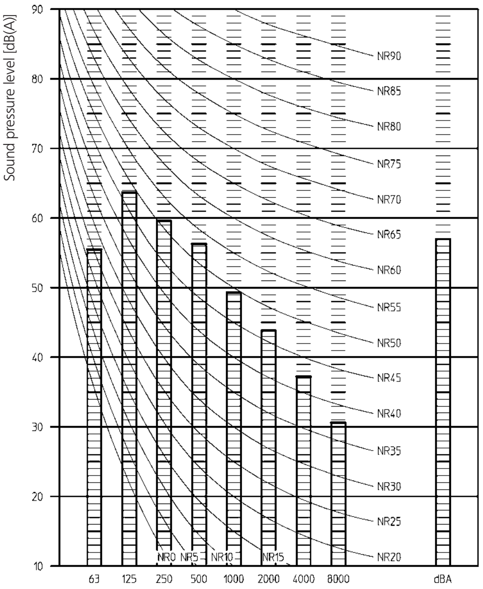


Measuring location (discharge side)

9 Sound data

9 - 1 Sound pressure spectrum

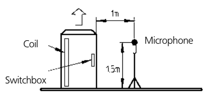
RZQ200B7



3TW26567-1

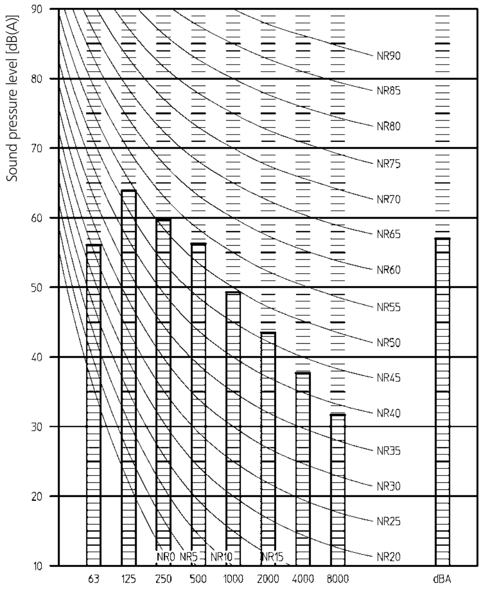
NOTES

1 Data is valid at free field condition (measured in a semi-anachoic room)
2 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
3 Reference acoustic pressure 0dB = 20μPa
4 If sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



Location of microphone

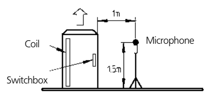
RZQ250B7



3TW26577-1

NOTES

1 Data is valid at free field condition (measured in a semi-anachoic room)
2 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
3 Reference acoustic pressure 0dB = 20μPa
4 If sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



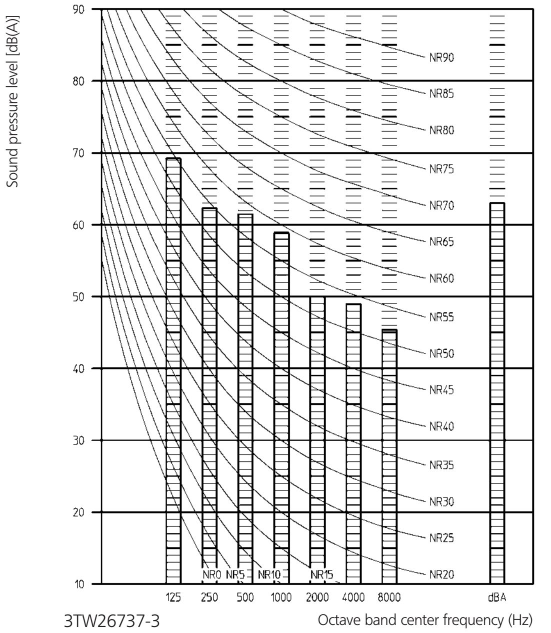
Location of microphone

9 Sound data

9 - 2 Sound power spectrum

9

RZQ71B7V3B - Cooling

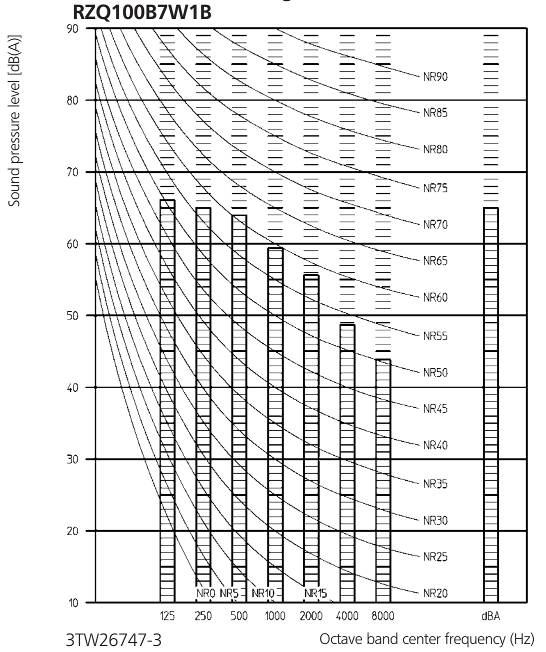


3TW26737-3

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

RZQ100B8V3B - Cooling
RZQ100B7W1B

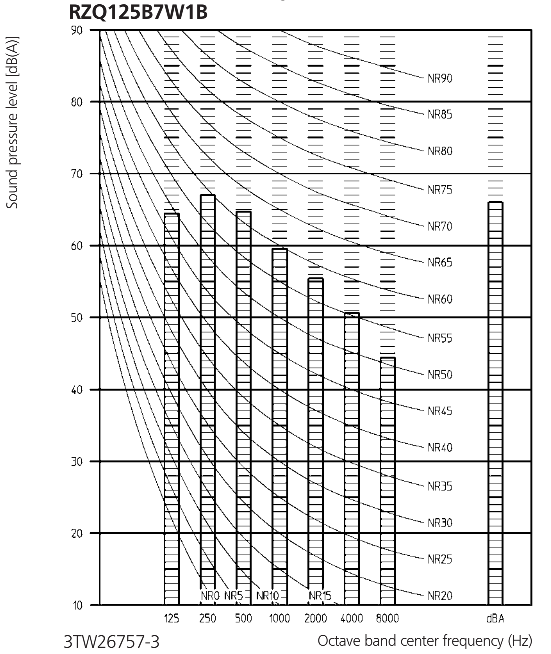


3TW26747-3

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

RZQ125B8V3B - Cooling
RZQ125B7W1B

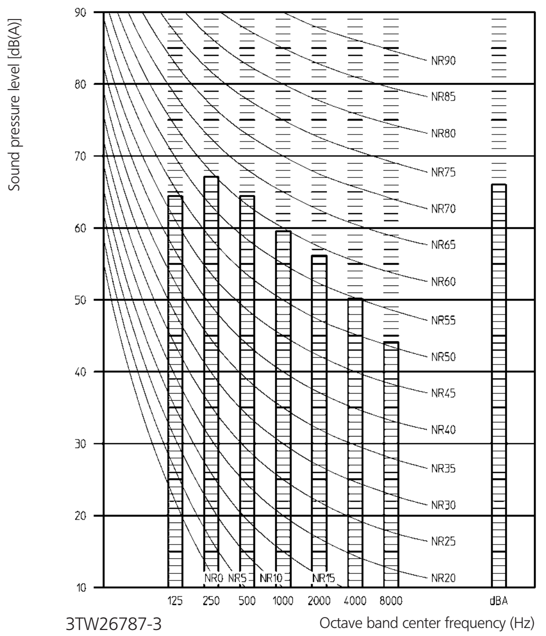


3TW26757-3

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

RZQ140B8V3B - Cooling



3TW26787-3

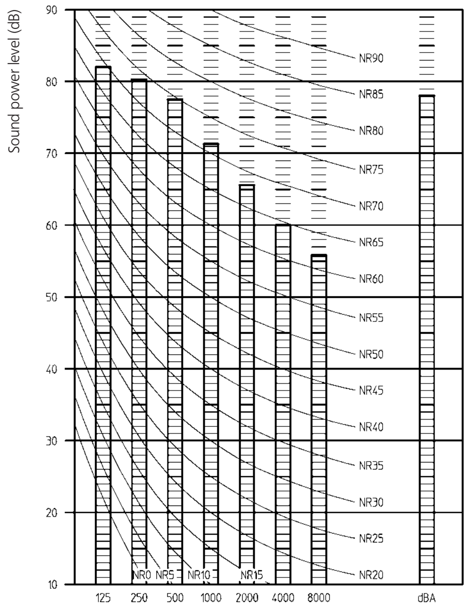
NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

9 Sound data

9 - 2 Sound power spectrum

RZQ200B7

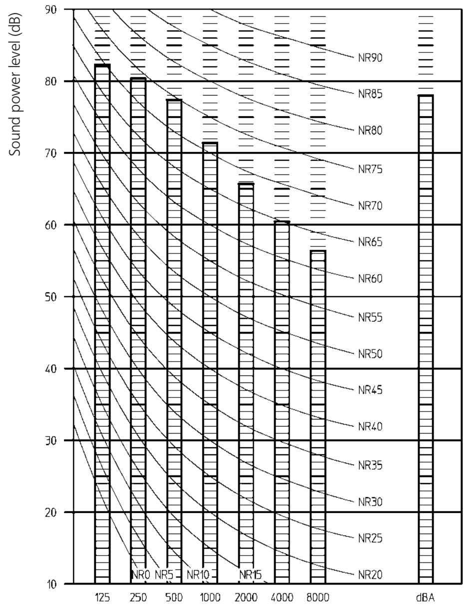


3TW26567-2 Octave band center frequency (Hz)

NOTES

1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m².
3 Measured according to ISO 3744

RZQ250B7



3TW26577-2 Octave band center frequency (Hz)

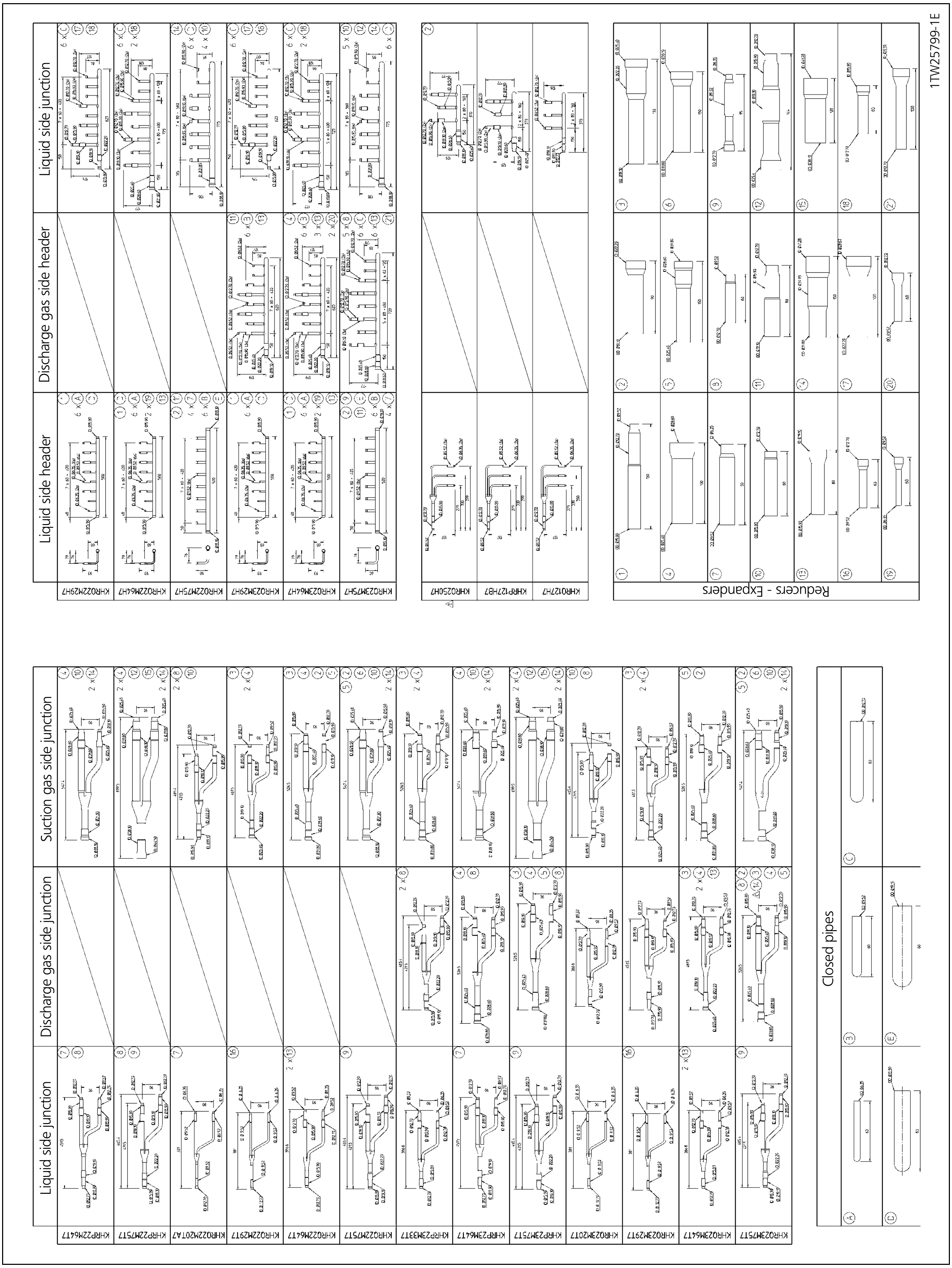
NOTES

1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m².
3 Measured according to ISO 3744

10 Installation

10 - 1 Refnet pipe systems

10

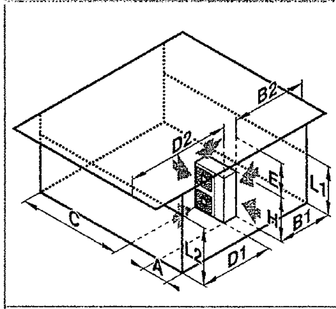


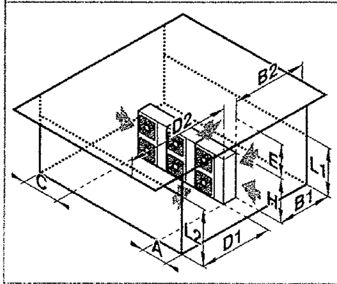
10 Installation

10 - 2 Service space

RZQ71~140B

A. Non stacked installation





Suction side obstacle	Discharge side obstacle	Left side obstacle	Right side obstacle	Top side obstacle			A	B1	B2	C	D1	D2	E	L1/L2	
✓								≥50(100)							
✓		✓	✓				≥100	≥100		≥100					
✓				✓				≥100				≤500	≥1000		
✓		✓	✓	✓			≥150	≥150		≥150		≤500	≥1000		
	✓										≥500				
	✓			✓					≤500		≥500		≥1000		
✓	✓				L1<L2			≥50(100)			≥500				
✓	✓				L2<L1			≥50(100)			≥500				
✓	✓			✓	L1<L2	L1≤H		≥150(250)	≤500		≥750		≥1000	0<L1≤1/2H	1
											≥1000			0<L1≤1/2H	
						H<L1	L1≤H								
					L2<L1	L2≤H		≥50(100)			≥500 (1000)	≥500	≥1000	0<L2≤1/2H	
								≥100(200)						1/2H<L2≤H	
						H<L2	L2≤H								
✓		✓	✓				≥200	≥200(300)		≥1000					
✓		✓	✓	✓			≥200	≥200(300)		≥1000		≤500	≥1000		
	✓										≥1000				
	✓			✓					≤500		≥1000		≥1000		
✓	✓				L1<L2			≥200(300)			≥1000				
					L2<L1			≥150(250)			≥1000 (1500)			0<L2≤1/2H	
								≥200(300)						1/2H<L2≤H	
✓	✓			✓	L1<L2	L1≤H		≥200(300)	≤500		≥1000		≥1000	0<L1≤1/2H	1
											≥1250			1/2H<L1≤H	
						H<L1	L1≤H								
					L2<L1	L2≤H		≥150(250)			≥1000 (1500)	≤500	≥1000	0<L2≤1/2H	2
								≥200(300)						1/2H<L2≤H	
						H<L2	L2≤H								

Legend

- Suction side obstacle
- Discharge side obstacle
- Left side obstacle
- Right side obstacle
- Top side obstacle
- ✓ Obstacle is present

1 In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

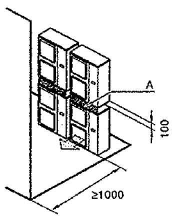
2 In these cases, only 2 units can be installed.

This situation is not allowed.

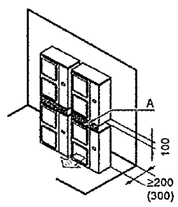
Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



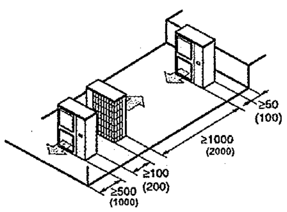
2. Obstacles exist in front of the air inlet



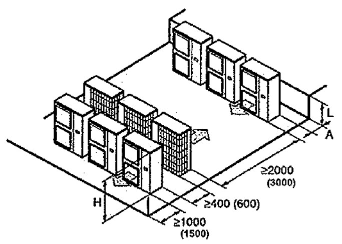
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

C. Multiple-row installation

1. Installation of one unit per row



2. Installing multiple units (2 units or more) in lateral connection per row



Relation of dimensions of H, A, and L are shown in the table below.

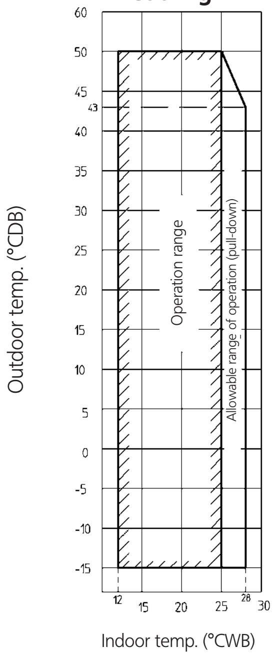
	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

3TW26739-4

11 Operation range

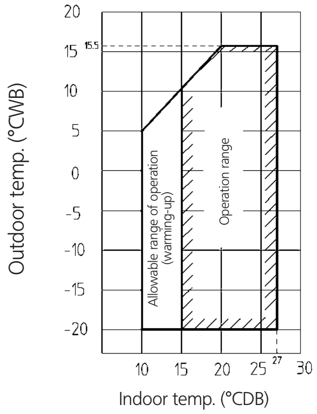
RZQ71-100-125-140B

Cooling



Model name	
RZQ71B8V3B	RZQ100B7W1B
RZQ100B8V3B	RZQ125B7W1B
RZQ125B8V3B	RZQ140B7W1B

Heating



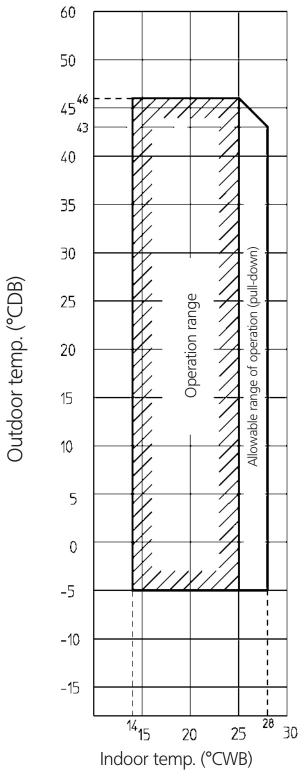
Notes:

- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

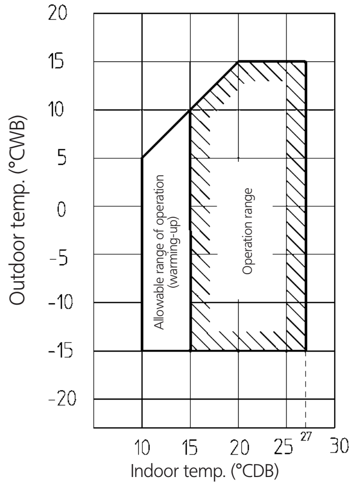
3TW26733-1

RZQ200-250B7

Cooling



Heating



4TW26566-1